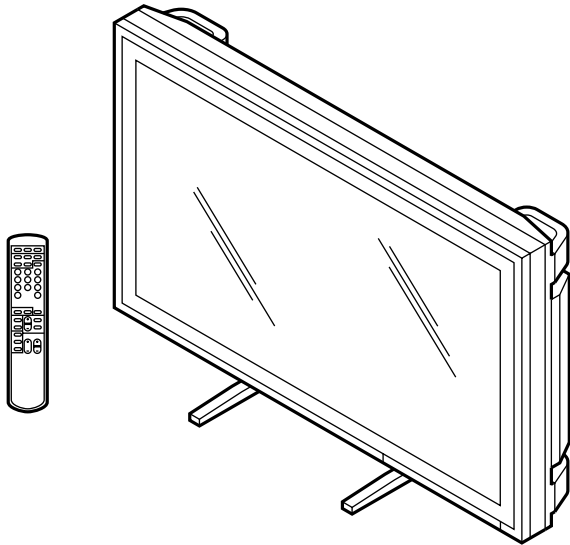


SERVICE MANUAL

MODEL	DEST.	CHASSIS NO.	MODEL	DEST.	CHASSIS NO.
PFM-500A3WE	AEP		BKM-500		
PFM-500A3WG	E		MB-514		
PFM-500A3WU	US/CND		RM-921		
PFM-510A2WE	AEP				
PFM-510A2WG	E				
PFM-510A2WU	US/CND				



PFM-500A3W/510A2W
BKM-500
MB-514
RM-921

Flat Panel Monitor
Input Adaptor
Mounting Bracket
Remote Commander

⚠ 警告

このマニュアルは、サービス専用です。
お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、
人身事故につながる可能性があります。
危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

⚠ WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that
contained in the operating instructions unless you are qualified to do so. Refer all servicing to
qualified service personnel.

⚠ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die
Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei
Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben
Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung
dazu besitzen.

⚠ AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin
de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les
réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres.
Pour toute réparation faire appel à une personne compétente uniquement.

WARNING!!

AN INSULATED TRANSFORMER SHOULD BE USED DURING
ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BE-
CAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED
TO THE AC POWER LINE.

ATTENTION!!

AFIN D'ÉVITER TOUT RISQUE D'ÉLECTROCUTION
PROVENANT D'UN CHÂSSIS SOUS TENSION, UN
TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS
DE TOUT DÉPANNAGE.
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT
RACCORDÉ À L'ALIMENTATION SECTEUR.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY A ⚠ MARK ON THE SCHEMATIC
DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE
CRITICAL TO SAFE OPERATION. REPLACE THESE COMPO-
NENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-
LISHED BY SONY.

**ATTENTION AUX COMPOSANTS RELATIFS À LA
SÉCURITÉ!!**

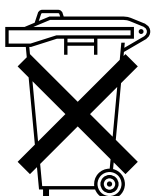
LES COMPOSANTS IDENTIFIÉS PAR UNE MAPQUE ⚠ SUR
LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES
LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE
POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES
REPLACER QUE PAR DES COMPOSANTS SONY DONT LE
NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT
MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

Voor de klanten in Nederland

Dit apparaat bevat een CR2025 batterij voor memory back-up.

Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.

Gooi de batterij niet weg, maar lever hem in als KCA.



Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instructions.

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

Ersatz nur durch denselben oder einen vom Hersteller empfohlenen ähnlichen Typ.
Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.

Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.

Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.

Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

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Section 1

Operating Instructions

This section is reprinted
from operation manual.

1-1. PFM-500A3WE/500A3WG/500A3WU/510A2WE/510A2WG/510A2WU Operating Instructions

4-076-854-01 (1)

SONY®

SONY

PFM-510A2WU/510A2WE/510A2WJ/510A2WG/500A3WU/500A3WE/500A3WJ/500A3WG

Flat Panel Monitor

Operating Instructions

GB

PFM-510A2WU/510A2WE/510A2WJ/510A2WG
PFM-500A3WU/500A3WE/500A3WJ/500A3WG

© 2000 Sony Corporation

WARNING

Owner's Record

The model and serial numbers are located on the rear.
Record the model and serial numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

For the customers in the U.S.A.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the customers in Canada

This class A digital apparatus complies with Canadian ICES-003.

For the customers in Europe

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.


For PFM-510A2WE/510A2WG/500A3WE/500A3WG users

THIS APPARATUS MUST BE EARTHED

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow : Earth
Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or by the safety earth symbol  or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Voor de klanten in Nederland



Bij dit produkt zijn batterijen geleverd.
Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

The socket-outlet should be installed near the equipment and be easily accessible.

Note

When you connect a computer to this monitor, attach the supplied ferrite cores. If you do not do this, this monitor will not conform to mandatory FCC/IC/CE (EN55022) standards.

Attaching the ferrite cores
Set the ferrite cores on the both ends of the AC power cord. Close the lid tightly until the clamps click.

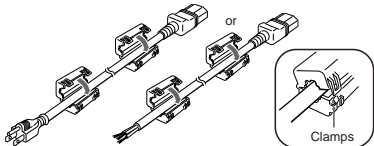


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Precautions

On safety

- Operate the unit on 100 to 120 V AC or 220 to 240 V AC.
- A nameplate indicating operating voltage, power consumption, etc. is located on the rear.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for several days or more.
- To disconnect the AC power cord, pull it out by grasping the plug. Never pull the cord itself.
- When the unit is installed on the floor, be sure to use the retractable feet.

On installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- When you install multiple equipment with the unit, the following, such as malfunction of the Remote Commander, noisy picture, noisy sound, may occur depending on the position of the unit and other equipment.

On the PDP (Plasma Display Panel)

- There may be some tiny black points and/or bright points on the PDP. These points are normal.
- Do not display the same still image on the screen for a long time. Otherwise, an afterimage or ghost may appear on a part of the panel. Use the screen saver function to equalize use of the screen display.

On cleaning

To keep the unit looking brand-new, periodically clean it with a mild detergent solution. Never use strong solvents such as thinner or benzene, or abrasive cleansers since these will damage the cabinet. As a safety precaution, unplug the unit before cleaning it.

Precautions

On repacking

Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it as illustrated on the carton.

If you have any questions about this unit, contact your authorized Sony dealer.

For PFM-510A2WE/500A3WE Users

The PFM-510A2WE/500A3WE Flat Panel Monitor will not function by itself. Install the BKM-500 or BKM-501D Input Adaptor in the monitor. If you are using the BKM-500, refer to this Operating Instructions. If you are using the BKM-501D, refer to the Operating Instructions supplied with the BKM-501D.

For more details, contact your authorized Sony dealer.

Features

Features

The PFM-510A2W/500A3W series are 16:9 42-inch flat panel monitors adopting a PDP (Plasma Display Panel), which can accept various types of signals with the built-in scan converter.

Improved image quality

The PFM-510A2W series achieves higher image quality with its PDP (Plasma Display Panel) set to 1024 dots × 1024 lines. This makes for a finely-detailed HDTV and PC image.
The PFM-500A3W series achieves brighter image quality with 852 dots (horizontal) × 480 lines (vertical) adopting PDP technology.

Internal high-performance scan converter

The monitor has a high performance scan converter. Using a unique algorithm, the monitor processes signals in a wide range of formats – Video, HDTV, PC, etc.

Flexibility

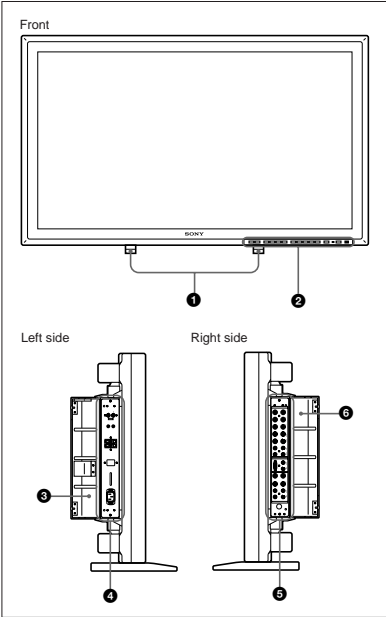
An option slot is in place for future expansion. The slot-in option adapter allows for quick and easy system upgrades.

Other features

- Three sets of video inputs with audio inputs: one composite video or Y/C input, one RGB input, and one RGB/component input.
- Displays the HDTV signal with a tri-level sync signal.
- Three dimensional comb filter for NTSC Y/C separation.
- Line correlation comb filter for PAL Y/C separation.
- Automatic input signal detection with on-screen indication.
- Windows[®]95/98 PnP (Plug and Play) compatible.
- Picture AGC function — this function automatically adjusts and improves the contrast when a low intensity signal is input.
- On-screen menu for various adjustments and settings
- On-screen display in six languages for user-friendly access. (Languages: English, German, French, Italian, Spanish and Japanese)
- Fine adjustment of image size and position
- Memory function for storage of up to twenty picture settings.
- ID control
- Self-diagnosis function.
- Remote (RS-232C) connector (mini DIN 8-pin)
- Control-S connector
- Accepts infrared or wired Sony Remote Commanders using SIRCS code.
- Vertical setup
- Closed caption decoder
- Screen saver to reduce an afterimage or ghosting.

Location and Function of Parts and Controls

Front / Sides



1 Retractable feet

Use for setting the monitor on the floor.
For details on using the retractable feet, see “Using the Retractable Feet” on page 13 (GB).

2 Control panel

For details on the control panel, see “Control Panel” on page 8 (GB).

3 Left panel cover

Open this when using the left connector panel.
You can install the Remote Commander in a slot on the back of this cover.
For details on opening the panel cover, see the right-hand side of this page.

4 Left connector panel

For details on the left connector panel, see “Left Connector Panel” on page 10 (GB).

5 Right panel cover

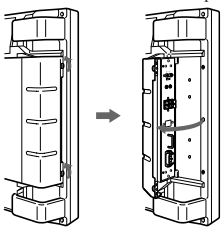
For details on the right connector panel, see “Right Connector Panel” on page 9 (GB).

6 Right panel cover

Open this when using the right connector panel.
For details on opening the panel cover, see below.

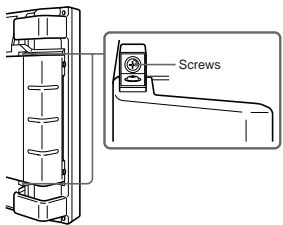
To open the panel cover

Loosen the screws counterclockwise and open the cover.



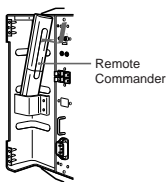
To take off the panel cover

Loosen the screws as illustrated below and take off the panel cover.



To install the Remote Commander in the panel cover

Install the Remote Commander in the slot on the back of the left panel cover as illustrated below.



Note

When housing the Remote Commander, make sure that the top of the Remote Commander faces upward and the rear faces outside.

Warning on power connection

Use a proper power cord for your local power supply.

	United States, Canada	Continental Europe	United Kingdom, Ireland, Australia, New Zealand	Japan
Plug type	VM0033B	COX-07 636	—a)	VM1296
Female end	VM0113	COX-02 VM0310B	VM0303B	VM1313
Cord type	SJT	H05VV-F	CEE (13) 53rd (O.C)	HVCTF
Minimum cord set rating	13A/125V	10A/250V	10A/250V	10A/125V
Safety approval	UL/CSA	VDE	VDE	DENTORI

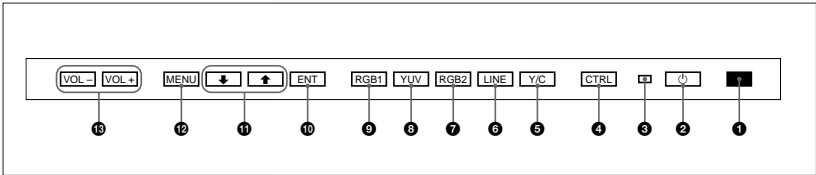
a) Note: Use an appropriate rating plug which is applied to local regulations.

1) Windows is a registered trademark of the Microsoft Corporation.

6 (GB)

7 (GB)

Control Panel



1 Remote control detector
Receives the beam from the Remote Commander.

2 $\text{\textcircled{I}}$ (standby) switch/ $\text{\textcircled{I}}$ (standby) indicator
Press to turn on the monitor. Press again to go back to the standby mode.
The $\text{\textcircled{I}}$ (standby) indicator lights up in red in the standby mode.
When the $\text{\textcircled{I}}$ indicator flashes, see “Self-diagnosis Function” on page 36 (GB).

3 Power indicator
Lights up when the monitor is turned on.

4 CTRL (control) button
To operate the buttons on the control panel, first press this button. When the buttons light up or flash that shows that they can be operated. Press again to deactivate them.

Note
The buttons (except for $\text{\textcircled{I}}$ (standby) switch **2**) on the control panel do not function if you do not press the CTRL button first.

5 Y/C button
Selects the signal input from the Y/C IN jack among the LINE connectors.

6 LINE button
Selects the signal input from the VIDEO IN connector among the LINE connectors.

7 RGB2 button
Selects the signal input from the RGB2 connectors.

8 YUV button
Selects the component signal input from the RGB1 connectors.

9 RGB1 button
Selects the RGB signal input from the RGB1 connectors.

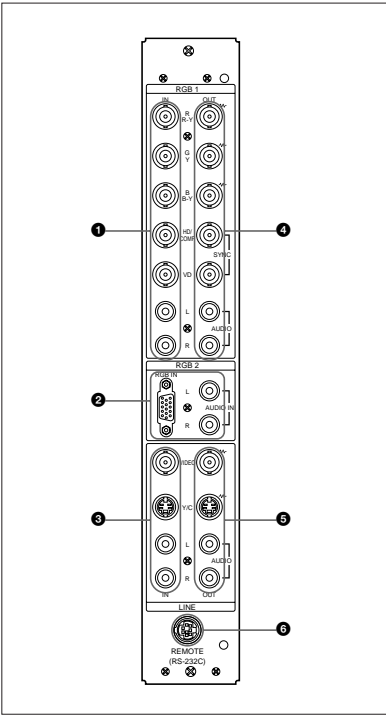
10 ENT (enter) button
Press to select the desired item from the menu displayed.

11 \uparrow/\downarrow buttons
Press to move the cursor (\blacktriangleright) to an item or to adjust a value in a menu.

12 MENU button
Press to make the menu appear.

13 VOL (volume) +/- buttons
Press the + button to increase the volume, or the – button to decrease the volume.

Right Connector Panel



Note
The image enhancing process for video signals (NTSC, PAL, SECAM, NTSC4.43, PAL60) works only for composite (Y/C) or component (Y/R-Y/B-Y) input. The image from the RGB input may look blurred. This is normal.

- 1 RGB1 IN connectors**
R (R-Y)/G (Y)/B (B-Y) IN (BNC-type): Inputs an analog RGB signal or a component signal. Connects to the RGB signal or component (Y/B-Y/R-Y) signal output of a computer or video equipment.
This monitor also accepts an HD analog component (Y/Pb/Pr) signal. Inputs the Pb signal to the B (B-Y) IN connector and Pr signal to the R (R-Y) IN connector.
HD/COMP IN (BNC-type): Inputs an H sync signal or a composite sync signal. Connects to the H sync signal or composite sync signal output of a computer or video equipment.
VD IN (BNC-type): Inputs the V sync signal. Connects to the V sync signal output of a computer or a piece of video equipment.

An external sync signal is selected automatically. See the priority chart below.

Input connector	Input sync signals		
HD/COMP IN	H Sync	Comp Sync	—
VD IN	V Sync	—	—
G(Y) IN	Sync on G	Sync on G	Sync on G
Sync signals to be selected	H Sync	Comp Sync	Sync on G

AUDIO IN (L/R) (phono type): Inputs an audio signal. Connects to the audio output of a computer or a piece of video equipment. Connects to the channel L when the audio signal is monaural.

- 2 RGB2 IN connectors**
RGB IN (D-sub 15-pin): Connects to the RGB signal output of a computer.
AUDIO IN (L/R) (phono type): Inputs an audio signal. Connects to the audio output of a computer. Connects to channel L when the audio signal is monaural.
- 3 LINE IN connectors**
VIDEO IN (BNC-type): Connects to the composite video signal output of the video equipment.
Y/C IN (Mini DIN 4-pin): Connects to the Y/C signal output of the video equipment.
AUDIO IN (L/R) (phono type): Connects to the audio output of the video equipment. Connects to channel L when the audio signal is monaural.

④ RGB1 OUT connectors

These connectors are used as loop-through outputs of the RGB1 IN connectors ①. When the plug is connected to the RGB OUT connectors, the 75-ohms termination of the RGB IN connectors is released, and the signal input to the RGB IN connectors is output from the these connectors.

R (R-Y)/G (Y)/B (B-Y) OUT (BNC-type): Loop-through outputs of the RGB IN connectors. Connects to the RGB signal or component (Y/B-Y/R-Y) signal input of another monitor.

HD/COMP OUT (BNC-type): Loop-through output of the HD/COMP IN connector. Connects to the H sync signal or composite sync signal input of another monitor.

VD OUT (BNC-type): Loop-through output of the VD IN connector. Connects to the V sync signal input of another monitor.

Note

The HD/COMP OUT and VD OUT connectors are high impedance outputs. When using these outputs, connect a monitor with a high impedance sync input connector, or the picture might oscillate or disappear because of the sync signal level mismatch.

AUDIO OUT (L/R) (phono type): Loop-through outputs of the AUDIO IN jacks. Connects to the audio inputs of another monitor.

⑤ LINE OUT connectors

These connectors are used as loop-through outputs of the LINE IN connectors ③.

When the plug is connected to the VIDEO OUT connector or Y/C OUT jack, the 75-ohms termination of the VIDEO IN connector or Y/C IN jack is released, and the signal input to the VIDEO IN or Y/C IN jack is output from the VIDEO OUT connector or Y/C OUT jack.

VIDEO OUT (BNC-type): Connects to the composite video signal input of another monitor or video equipment.

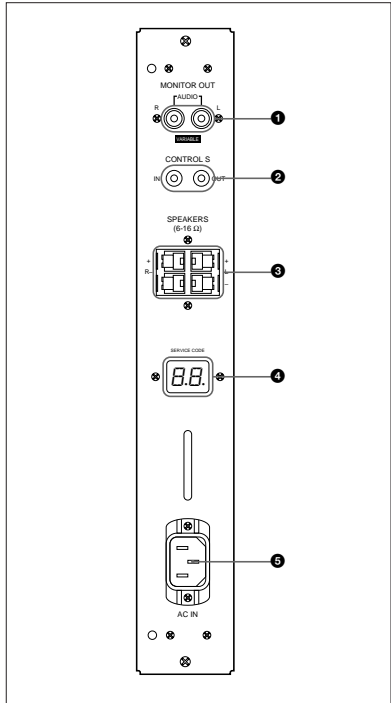
Y/C OUT (Mini DIN 4-pin): Connects to the Y/C signal input of another monitor or a piece of video equipment.

AUDIO OUT (L/R) (phono type): Loop-through outputs of the AUDIO IN jacks. Connects to the audio inputs of another monitor or a piece of video equipment.

⑥ REMOTE (RS-232C) connector (mini DIN 8-pin)

This connector allows remote control of the monitor using the RS-232C protocol. For details, contact your authorized Sony dealer.

Left Connector Panel



① MONITOR OUT AUDIO (L/R) jacks (phono type)

Outputs the signal input from the AUDIO IN jacks. Connects to the audio inputs of an audio amplifier (not supplied).

Note

These jacks are variable outputs. Set the volume to the maximum position to set the output level to 500 mVrms.

② CONTROL S IN/OUT jacks (mini jacks)

Connects to the CONTROL S jacks of video equipment or another monitor. Then you can simultaneously control all equipment with a single Remote Commander.

To control equipment by aiming the supplied Remote Commander at the remote control detector of the monitor, connect the CONTROL S OUT jack of the monitor and the CONTROL S IN jack of the other equipment.

Notes

- If you connect the CONTROL S IN jack to the other equipment's CONTROL S OUT jack, you cannot operate the monitor with the Remote Commander.
- You can use a stereo cable with a mini plug instead of the control S cable.

③ SPEAKERS L/R terminals

Connects to speakers with 6 to 16 ohms impedance.

Note

Do not connect the speaker's cord to the monitor and to an amplifier simultaneously, or an excessive electric current might flow from the amplifier and damage the monitor.

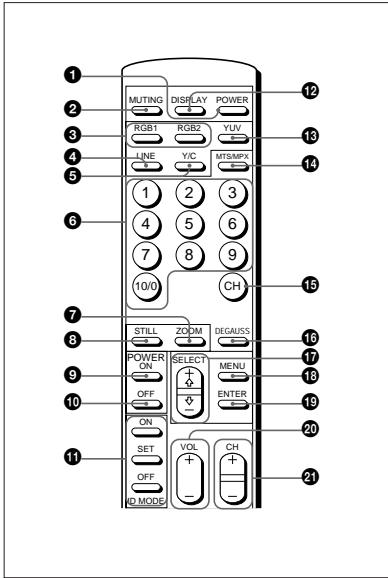
④ SERVICE CODE indicator

The indicator is only for qualified personnel.

⑤ ~AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet. Once you connect the AC power cord, the (standby) indicator lights up in red and the monitor turns to standby mode.

Remote Commander RM-921



① POWER switch

Press to turn on the monitor. Press again to go back to the standby mode.

Note

When using multiple monitors, press this switch to turn monitors which are already on to the standby mode, or turn on monitors which are in the standby mode.

② MUTING button

Press to mute the sound. Press this button again or press the VOL (volume) +/- button to obtain the sound again.

③ RGB1/RGB2 buttons

Select the signal input from the RGB1 or RGB2 connectors.

④ LINE button

Selects the signal input from the VIDEO IN connector in the LINE connectors.

Location and Function of Parts and Controls

5 Y/C button

Selects the signal input from the Y/C IN jack in the LINE connectors.

6 Number buttons

Press to select the index number.

7 ZOOM button

Each time you press this button, the image size changes (in order) to double (×2), triple (×3), quadruple (×4) and original size.

8 STILL button

This button does not operate with the monitor.

9 POWER ON switch

Press to turn on the monitor. When you use multiple monitors, you can use this switch instead of the POWER switch 1 so as not to affect another monitor which may be already turned on.

10 POWER OFF switch

Press to turn the monitor to the standby mode. When you use multiple monitors, you can use this switch instead of the POWER switch 1 so as not to affect another monitor which may be in the standby mode.

11 ID MODE (ON/SET/OFF) buttons

Press the ON button to make an index number appear on the screen. Then press the index number of the monitor you want to operate and press the SET button. After you finish the operation, press the OFF button to return to the normal mode.

12 DISPLAY button

Displays the input signal information and the time at the top of the monitor screen. Press again to clear it.

13 YUV button

Selects the component signal input from the RGB1 connectors.

14 MTS/MPX button

This button does not operate with the monitor.

15 CH button

This button does not operate with the monitor.

16 DEGAUSS button

This button does not operate with the monitor.

17 SELECT +↑/−↓ buttons

Press to move the cursor (▶) to an item or to adjust a value in a menu.

18 MENU button

Press to make the menu appear.

19 ENTER button

Press to select the desired item in a menu.

20 VOL +/- buttons

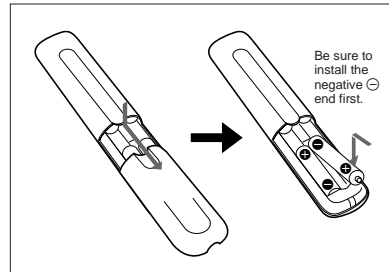
Press the + button to increase the volume, or the − button to decrease the volume.

21 CH +/- buttons

This button does not operate with the monitor.

Installing batteries

Insert two size AA (R6) batteries in correct polarity.



- In normal operation, batteries will last up to half a year. If the Remote Commander does not operate properly, the batteries might be exhausted sooner. Replace them with new ones.
- To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the Remote Commander for a fairly long time.

When the Remote Commander does not work

Check that the indicator lights up. The Remote Commander operates the monitor only when the monitor is turned on, or it is in the standby mode.

Note

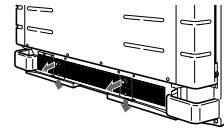
When you use multiple monitors, if you connect the cable to the CONTROL S IN jack on the side of the monitor, you cannot operate the monitor with the Remote Commander.

Installation

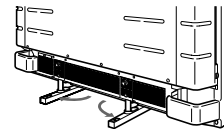
Using the Retractable Feet

This section describes the installation arrangements for installing the monitor.

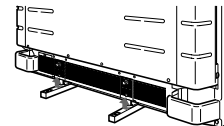
- 1 Pull out the knobs and pull down the retractable feet.



- 2 Turn the retractable feet outward.



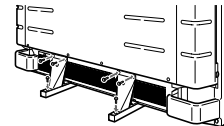
- 3 Push in the retractable feet until you hear the click.



To fix the retractable feet in place

When the monitor is installed on the floor, be sure to fix the retractable feet in place.

Install the foot support brackets as illustrated below.

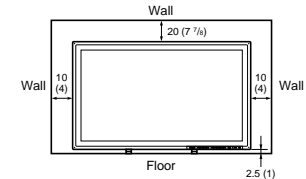


Caution

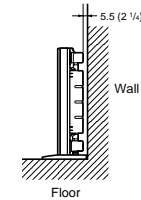
- When you install the monitor, make sure there is more space than that shown in the figure below.
- The ambient temperature must be 0 °C to +35 °C (32 °F to 95 °F).

When using the retractable feet

Front



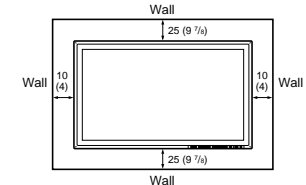
Side



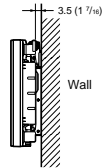
Units: cm (inches)

When using the mounting bracket

Front



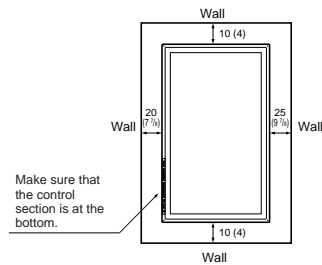
Side



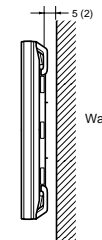
Units: cm (inches)

Hooked on the wall: Vertically

Front



Side

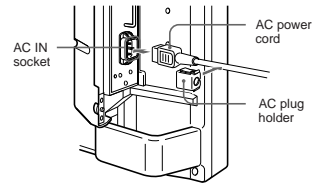


Units: cm (inches)

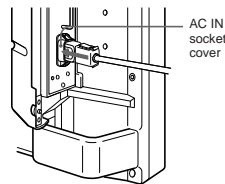
Connections

Connecting the AC Power Cord

- 1 Plug the power cord into the AC IN socket. Then, attach the AC plug holder (supplied) to the AC power cord.



- 2 Slide the AC plug holder over the cord until it connects to the AC IN socket cover.



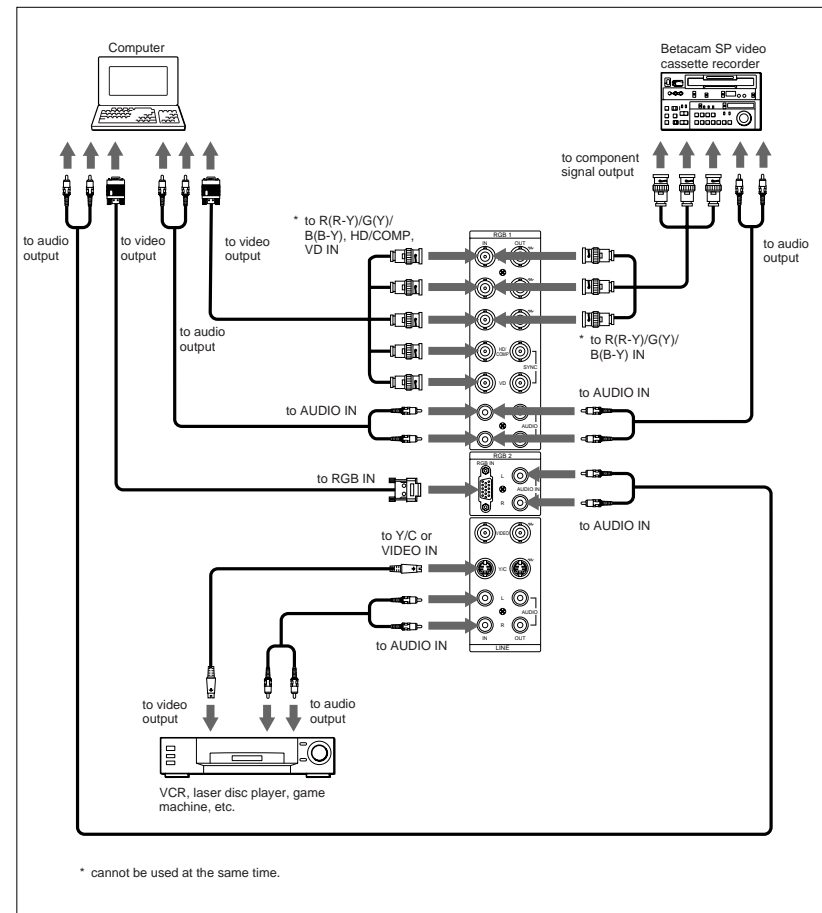
To remove the AC power cord

Squeeze the upper and lower sides and pull out the AC plug holder.

Connection Example

Before you start

- First make sure that the power to each piece of equipment is turned off.
- Use connecting cables suitable for the equipment to be connected.
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and other noise.
- To disconnect the cable, pull it out by grasping the plug. Never pull the cable itself.
- Read the instruction manual of the equipment to be connected.

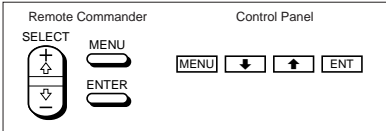


Using On-screen Menus

Operating Through Menus

Menu operating buttons

There are four buttons on the monitor and the Remote Commander for menu operations.



The buttons on the control panel are used for explanation purposes in this operating instructions. The ENTER button on the Remote Commander has the same function as the ENT button on the control panel and the SELECT + \uparrow / \downarrow buttons on the Remote Commander as same as the \uparrow / \downarrow buttons on the control panel.

Configuration of the menu

To select the language used in the menu, see page 31 (GB).

- 1** Press MENU.
The main menu appears on the monitor screen.



- 2** Press \uparrow / \downarrow to move the cursor (\blacktriangleright) and press ENT to select a menu.
The selected menu appears on the monitor screen.
- 3** Press \uparrow / \downarrow to move the cursor (\blacktriangleright) and press ENT to select an item.
The menu for the selected item appears on the monitor screen.

16 (GB)

- 4** Press \uparrow / \downarrow to adjust or select the setting and press ENT to set.
The setting is registered and the menu returns to the previous menu.

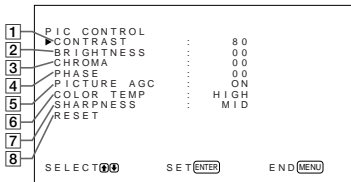
To return to the normal screen, press the MENU button repeatedly until the menu disappears.

Menu Guide

Note
“— — —” appears next to an item when its function is not available. The availability depends on the types of input signal.

PIC CONTROL menu

This menu is used for adjusting the picture.



- 1 CONTRAST**
Press \uparrow to increase the contrast and press \downarrow to decrease it.
- 2 BRIGHTNESS**
Press \uparrow to make the picture brighter and press \downarrow to make it darker.
- 3 CHROMA**
Press \uparrow to increase color saturation and press \downarrow to decrease it.
- 4 PHASE**
Press \uparrow to make the overall picture greenish and press \downarrow to make it purplish.
- 5 PICTURE AGC**
Select ON to automatically increase the brightness when a low brightness signal is input.
This function works only for LINE input or 15 kHz YUV input.

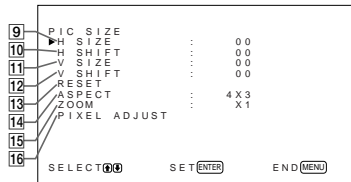
- 6 COLOR TEMP**
Changes color temperature.
For details, see “COLOR TEMP” on page 23 (GB).

- 7 SHARPNESS**
Changes the outline correction level in three levels (HIGH, MID or LOW).
For details, see “SHARPNESS” on page 24 (GB).

- 8 RESET**
Restores the factory settings in the PIC CONTROL menu items **1** to **7**.
For details on using the reset function, see “Restoring the PIC CONTROL Menu Items to Original Settings” on page 24 (GB).

PIC SIZE menu

This menu is used for resizing and positioning the picture.



- 9 H SIZE**
Adjusts the horizontal picture size. Press \uparrow to enlarge the horizontal size and press \downarrow to diminish it.
- 10 H SHIFT**
Adjusts the horizontal centering. Press \uparrow to move the picture to the right and press \downarrow to move it to the left.
- 11 V SIZE**
Adjusts the vertical picture size. Press \uparrow to enlarge the vertical size and press \downarrow to diminish it.
- 12 V SHIFT**
Adjusts the vertical centering. Press \uparrow to move the picture up and press \downarrow to move it down.
- 13 RESET**
Restores the factory settings in the PIC SIZE menu items **9** to **12**.
For details on using the reset function, see “Restoring the Original Picture Size and Position” on page 26 (GB).

- 14 ASPECT**
Sets the aspect ratio of the picture to 4:3, 16:9 or wide-zoom size.
For details on the wide-zoom, see “Enlarging a 4:3 Image to a 16:9 Screen Naturally (Wide Zoom Mode)” on page 27 (GB).

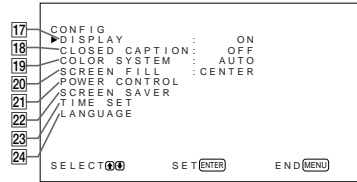
- 15 ZOOM**
Enlarges the image (in order) to double ($\times 2$), triple ($\times 3$) and quadruple ($\times 4$). You can also operate with the ZOOM button on the Remote Commander.

Note
When you use the wide zoom mode, set ZOOM to $\times 1$. If ZOOM is set to $\times 2$, $\times 3$ or $\times 4$, the wide zoom mode cannot be used.

- 16 PIXEL ADJUST**
Adjusts the dot phase and total number of horizontal pixels when you see noise on the edges of the characters and the vertical lines.
For details, see “Adjusting the Pixels” on page 28 (GB).

CONFIG menu

This menu is used for adjusting the signal or selecting the language.



- 17 DISPLAY**
Selects ON to display the input signal information for about five seconds at the top of the monitor screen when turning on the power or switching the input signal.
- 18 CLOSED CAPTION**
Displays closed captions.
For details, see “Displaying Closed Captions” on page 20 (GB).

17 (GB)

19 COLOR SYSTEM

Selects the input signal.

AUTO: to display NTSC, PAL or SECAM signals

443NT: to display NTSC4.43 signals

PAL60: to display PAL60 signals

20 SCREEN FILL

Selects the point of origin for resizing the picture.

CENTER: Sets the point of origin on the center of the monitor.

CORNER: Sets the point of origin at the upper-left corner of the monitor.

21 POWER CONTROL

Sets the length of time until the system goes into the power saving mode.

For details, see “Controlling Power On/Off Automatically (Power Control Function)” on page 34 (GB).

22 SCREEN SAVER

Enables the screen saver to reduce afterimage or ghosting.

For details, see “Reducing Afterimage/Ghosting (Screen Saver Function)” on page 31 (GB).

23 TIME SET

Sets the time.

For details, see “Adjusting the time” on page 21 (GB).

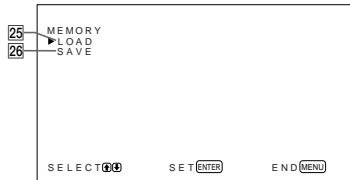
24 LANGUAGE

Selects the on-screen language (English, German, French, Italian, Spanish or Japanese).

For details, see “Selecting the On-screen Language” on page 31 (GB).

MEMORY menu

This menu is used for saving or recalling the settings in the PIC CONTROL and PIC SIZE menus.



For details, see “Using the Memory Function” on page 29 (GB).

25 LOAD

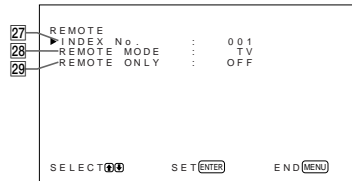
Recalls the preset settings.

26 SAVE

Saves the settings.

REMOTE menu

This menu is used for remote control settings.



27 INDEX No.

Sets the index number of the monitor.

Note

When you set the number, use the buttons on the monitor.

For details about the index number, see “Operating a Specific Monitor With the Remote Commander” on page 36 (GB).

28 REMOTE MODE

Selects the Remote Commander mode.

TV: The Sony monitors’ or the TVs’ commander

PJ: The Sony projectors’ commander

OFF: Disables the remote control.

Note

When you change the Remote Commander mode, use the buttons on the monitor. You cannot change the Remote Commander mode with the Remote Commander.

For details, see “Using Other Remote Commander Models” on page 38 (GB).

29 REMOTE ONLY

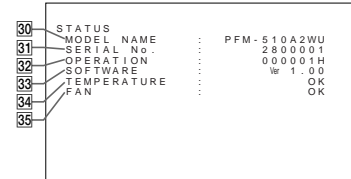
Select ON to disable the front control buttons on the monitor. The monitor can only be controlled with the Remote Commander. While REMOTE ONLY is ON, the indicators on the front panel go off.

To cancel the REMOTE ONLY mode, set REMOTE ONLY to OFF with the Remote Commander, or press the CTRL button while pressing the ⏻ switch on the monitor. The monitor turns to the standby mode and the REMOTE ONLY mode is cancelled.

The setting in this item is still retained when the AC power cord is disconnected or when you turn on/off the monitor with the Remote Commander.

STATUS menu

This menu is used for displaying the internal condition of the monitor.



30 MODEL NAME

Indicates the model name.

31 SERIAL No.

Indicates the serial number.

32 OPERATION

Indicates the total operation hours.

Note

The standby mode is not counted as part of the OPERATION time.

33 SOFTWARE

Indicates the system software version.

34 TEMPERATURE

Indicates whether the internal temperature of the monitor is normal.

OK: Normal

NG: Unusual

When the internal temperature is unusual, NG is displayed and the item flashes in red. The ⏻ indicator on the control panel also flashes.

Note

The “TEMPERATURE NG” message may appear when the ventilation holes are blocked or the monitor is installed in a poorly ventilated area. In this case, check that the ventilation holes are not blocked and install the monitor in a well ventilated area. If the message is still displayed, contact your authorized Sony dealer.

When the ⏻ indicator flashes or NG is indicated, see “Self-diagnosis Function” on page 36 (GB).

35 FAN

The cooling fans are built into this monitor. This item indicates whether the cooling fans work properly.

OK: Normal

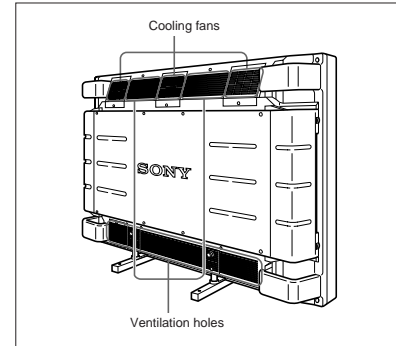
NG: Unusual

When the cooling fans are not working normally, NG is displayed and the item flashes in red. The ⏻ indicator on the control panel also flashes.

Note

When the “FAN NG” message appears, contact your authorized Sony dealer.

When the ⏻ indicator flashes or NG is indicated, see “Self-diagnosis Function” on page 36 (GB).



Note

The upper cooling fans detect the monitor’s internal temperature and control the fan rotation. If the ambient temperature is high, the fan speed increases and the noise will be louder.

Watching the Picture

Before you start

- Turn on the monitor.
- Turn on the connected equipment and play a video source.
- To display the input signal information on the screen when turning on the power or switching the input signal, set "DISPLAY" in the CONFIG menu to ON.
- To select the on-screen language used in the menu, see page 31 (GB).

Switching the Input Signal

- 1 Press CTRL on the control panel of the monitor. The RGB1, YUV, RGB2, LINE, and Y/C buttons light up.
- 2 Select the input source to be displayed by pressing the following buttons.
 - RGB1:** Selects the audio and video signal input from the RGB1 connectors when the input signal is an RGB signal.
 - YUV:** Selects the audio and video signal input from the RGB1 connectors when the input signal is a component signal.
 - RGB2:** Selects the audio and video signal input from the RGB2 connectors.
 - LINE:** Selects the audio and video signal input from the VIDEO IN connector and AUDIO IN jack among the LINE connectors.
 - Y/C:** Selects the audio and video signal input from the Y/C IN connector and AUDIO IN jack among the LINE connectors.

Color system or horizontal/vertical frequency
Signal type



The selected input signal appears on the monitor screen.

You can also switch the input signal with the Remote Commander.

Input Signal and Monitor Status Information Display

Input signal and monitor status information is displayed on the monitor screen for about five seconds when turning on the power or switching the input signal.

To disable this function, follow the steps below.

- 1 In the CONFIG menu, press \uparrow/\downarrow to move the cursor (\blacktriangleright) to "DISPLAY" and press ENT. The following menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow to set DISPLAY to OFF and press ENT. The DISPLAY function is disabled.

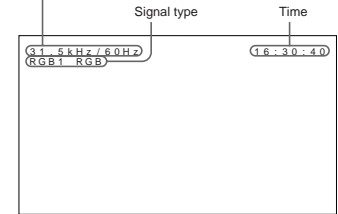
To activate the information function, set DISPLAY to ON in step 2 above. The factory default is ON.

Note

You can display the input signal information and the time anytime by pressing the DISPLAY button on the Remote Commander, regardless of the above setting.

The input signal information list

Color system or horizontal/vertical frequency



- 4 Select the caption type.
 - OFF:** The caption is not displayed.
 - CAPT1:** Displays caption1 over the picture.
 - CAPT2:** Displays caption2 over the picture.
 - TEXT1:** Displays caption1 against a black background.
 - TEXT2:** Displays caption2 against a black background.

- 5 Press MENU. The menu returns to the CONFIG menu.

Adjusting the time

- 1 In the CONFIG menu, press \uparrow/\downarrow to move the cursor (\blacktriangleright) to "TIME SET" and press ENT. The following menu appears on the monitor screen.



- 2 Press ENT. The background of the hour is displayed in cyan.
- 3 Adjust the hour with \uparrow/\downarrow and press ENT. The hour is defined and the background of the minute is displayed in cyan.
- 4 Similarly, adjust the minute and press ENT. The minute is defined and the second is reset to 00.

To display the time, press the DISPLAY button on the Remote Commander. The time is displayed in the upper-right corner of the monitor.

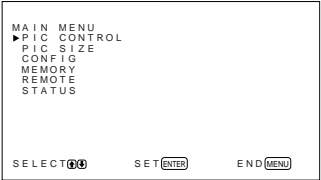
Note

We recommend input source video equipment equipped with a TBC (time base corrector). If the monitor receive a signal without TBC, the picture may disappear due to disturbance of the sync signal.

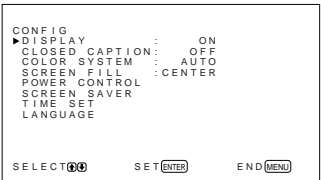
Switching the Display Mode

Displaying Closed Captions

- 1 Press MENU. The main menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow to move the cursor (\blacktriangleright) to "CONFIG" and press ENT. The CONFIG menu appears on the monitor screen.



- 3 Press \uparrow/\downarrow to move the cursor (\blacktriangleright) to "CLOSED CAPTION" and press ENT. The following menu appears on the monitor screen.



Preset input signals			
	Signal name	Color system or horizontal/vertical frequency	
Computer signals			
1	VGA®-1 (VGA 350)	31.5kHz	70Hz
2	640×350@85Hz (VESA® STD)	37.9kHz	85Hz
3	640×400@85Hz (VESA STD)	37.9kHz	85Hz
4	640×480@60Hz (VESA STD)	31.5kHz	60Hz
5	Mac® 13"	35.0kHz	67Hz
6	640×480@72Hz (VESA STD)	37.9kHz	73Hz
7	640×480@75Hz (VESA STD)	37.5kHz	75Hz
8	640×480@85Hz (VESA STD)	43.3kHz	85Hz
9	VGA (VGA TEXT)	31.5kHz	70Hz
10	720×400@85Hz (VESA STD)	37.9kHz	85Hz
11	800×600@56Hz (VESA STD)	35.2kHz	56Hz
12	800×600@60Hz (VESA STD)	37.9kHz	60Hz
13	800×600@72Hz (VESA STD)	48.1kHz	72Hz
14	800×600@75Hz (VESA STD)	46.9kHz	75Hz
15	800×600@85Hz (VESA STD)	53.7kHz	85Hz
16	Mac 16"	49.7kHz	75Hz
17	1024×768@60Hz (VESA STD)	48.4kHz	60Hz
18	1024×768@70Hz (VESA STD)	56.5kHz	70Hz
19	1024×768@75Hz (VESA STD)	60.0kHz	75Hz
20	1024×768@85Hz (VESA STD)	68.7kHz	85Hz
21	1152×864@75Hz (VESA STD)	67.5kHz	75Hz
22	Mac 21"	68.7kHz	75Hz
23	1280×960@60Hz (VESA STD)	60.0kHz	60Hz
24	1280×960@85Hz (VESA STD)	85.9kHz	85Hz
25	1280×1024@60Hz (VESA STD)	64.0kHz	60Hz
26	1280×1024@75Hz (VESA STD)	80.0kHz	75Hz
27	1280×1024@85Hz (VESA STD)	91.1kHz	85Hz
28	1600×1200@60Hz (VESA STD)	75.0kHz	60Hz
SDTV/HDTV			
1	PAL	PAL	
2	NTSC	NTSC	
3	SECAM	SECAM	
4	NTSC4.43	NTSC/4.43	
5	PAL60	PAL/60	
6	1080/24psf	27.0kHz	48Hz
7	1080/50i	28.1kHz	50Hz
8	575/50p	31.3kHz	50Hz
9	480/60p	31.5kHz	60Hz
10	1080/60i	33.8kHz	60Hz
11	720/60p	45.0kHz	60Hz

- a) VGA is a registered trademark of International Business Machines Corporation, USA.
b) VESA is a registered trademark of the Video Electronics Standards Association.
c) Mac (Macintosh) is a registered trademark of Apple Computer, Inc.

Notes

- When inputting an HDTV signal, input the tri-level sync signal to the G (Y) IN connector.
- When inputting the computer signal shown in item No. 28, set the H SIZE, H SHIFT, V SIZE and V SHIFT to the standard (00) and set ZOOM to ×1 in the PIC SIZE menu, or the picture might oscillate.

Actual on-screen display of the monitor status

On-screen display	Significance
31.5kHz / 60Hz (eg.)	The selected input signal is computer RGB.
525 / 60 (eg.)	The selected input signal is RGB or component video.
NTSC (eg.)	The selected input signal is NTSC.
OTHERS	The input signal is out of the capture range.
NO SYNC	There is no input signal.
MUTING	The sound is muted.
RGB1 RGB	The signal mode of RGB1 is set to RGB.
RGB1 YUV	The signal mode of RGB1 is set to component video.
LINE COMPOSITE	Composite video input is selected at LINE.
LINE Y/C	Y/C video input is selected at LINE.

Adjusting the Picture

While watching the picture, you can adjust contrast, brightness, chroma, phase, and so on, to suit your taste. The adjustments can be carried out for each input signal separately. You can also store the adjusted levels in memory.

Adjusting the Contrast, Brightness, Chroma, and Phase, etc.

Press MENU so that the main menu appears on the monitor screen and select “CONTRAST”, “BRIGHTNESS”, “CHROMA”, “PHASE”, “PICTURE AGC”, “COLOR TEMP” or “SHARPNESS” from the PIC CONTROL menu with **↑/↓**.

CONTRAST

Select “CONTRAST” with **↑/↓** and press ENT. Adjust the contrast with **↑/↓** in the range from MIN (0) to MAX (+100).
↑: to increase picture contrast
↓: to decrease picture contrast

BRIGHTNESS

Select “BRIGHTNESS” with **↑/↓** and press ENT. Adjust the brightness with **↑/↓** in the range from MIN (–50) to MAX (+50).
↑: to make the picture brighter
↓: to make the picture darker

CHROMA

Select “CHROMA” with **↑/↓** and press ENT. Adjust the chroma with **↑/↓** in the range from MIN (–50) to MAX (+50).
↑: to increase color intensity
↓: to decrease color intensity

PHASE

Select “PHASE” with **↑/↓** and press ENT. Adjust the phase with **↑/↓** in the range from MIN (–50) to MAX (+50).
↑: to make overall picture greenish
↓: to make overall picture purplish

Automatic Brightness Control – Enhancing the Image Contrast

If the average brightness of the image is low, the system can automatically raise the contrast level to enhance the brightness. This function works well for displaying dark images.

Select “PICTURE AGC” with **↑/↓** and press ENT. Set PICTURE AGC to ON or OFF with **↑/↓**.

COLOR TEMP (Color Temperature)

Set the color temperature. You can select HIGH or LOW, or adjust each gain more precisely. Up to six adjusted color temperatures can be registered. You can rename them (up to six characters in length).

- 1 Select “COLOR TEMP” with **↑/↓** and press ENT.
- 2 Select the color temperature with **↑/↓** and press ENT.
HIGH: to set the color temperature to high
LOW: to set the color temperature to low
1 – 6: to set the gain more precisely

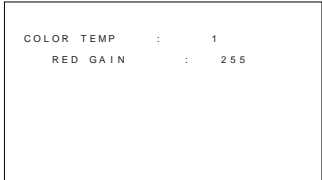
When you select HIGH or LOW, the menu returns to the PIC CONTROL menu.

When you select “1” to “6”
When you select “1” to “6”, the following menu appears on the monitor screen.

COLOR TEMP	:	1
RED GAIN	:	255
GREEN GAIN	:	255
BLUE GAIN	:	255
NAME SET	:	
SELECT	OK	ADJUST ENTER
		END MENU

Adjusting the Picture

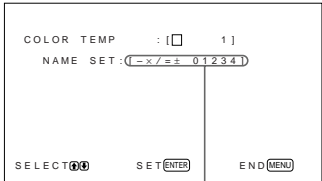
- (1) Select a number to register with \uparrow/\downarrow and press ENT.
The cursor (►) appears on the monitor screen.
- (2) Press \uparrow/\downarrow to move the cursor (►) to the gain that you want to set.
The following menu appears on the monitor screen.



- (3) Adjust the gain (10 to 255) with \uparrow/\downarrow and press MENU.
The menu returns to the COLOR TEMP menu.
- (4) Repeat steps (2) and (3) to set the other gains and press MENU.
The menu returns to the COLOR TEMP menu.

When you rename the adjusted color temperature, follow the steps below.

- (5) Press \uparrow/\downarrow to move the cursor (►) to "NAME SET" and press ENT.
The following menu appears on the monitor screen.



Character list

- (6) Select the character to be changed with \uparrow/\downarrow and press ENT.
The background of one character in the character list changes to cyan.

- (7) Select a character in the character list with \uparrow/\downarrow and press ENT.
The selected character is input.
- (8) Repeat steps (6) and (7) until you finish inputting the name, then press MENU.
The menu returns to the COLOR TEMP menu.

SHARPNESS

Change the outline correction level in three levels (HIGH, MID or LOW).

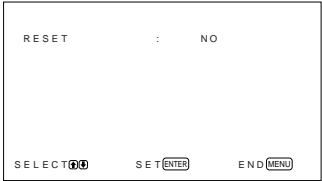
- 1 Press \uparrow/\downarrow to move the cursor (►) to "SHARPNESS" and press ENT.
- 2 Select the outline correction level with \uparrow/\downarrow and press ENT.
HIGH: sharper picture
MID: standard value
LOW: softer picture

Notes

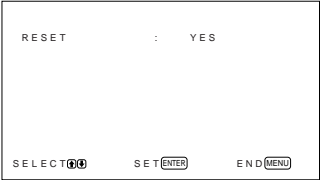
- CHROMA and PHASE controls do not function with an RGB signal.
- PHASE control does not function with a component signal.
- PHASE control does not function with a PAL or SECAM color source.
- Do not change the CHROMA/PHASE (NTSC only) level when the selected signal is black-and-white. Although it has no effect on the current picture, it does affect the picture of color signals such as NTSC or PAL which may be input later.

Restoring the PIC CONTROL Menu Items to Original Settings

- 1 In the PIC CONTROL menu, Press \uparrow/\downarrow to move the cursor (►) to "RESET" and press ENT.
The following menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow .
"NO" changes to "YES".



- 3 Press ENT.
The PIC CONTROL menu items are restored.

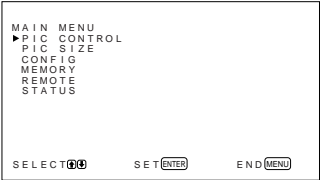
To cancel the reset function, press MENU before pressing ENT.

Resizing and Positioning the Picture

You can shift the position of the picture so that it fits the screen, or adjust the vertical and horizontal size of the picture separately. You can adjust the setting to display the 4:3 image at the more natural 16:9 setting.

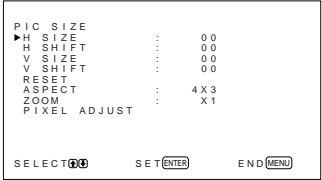
Resizing the Picture

- 1 Press MENU.
The main menu appears on the monitor screen.

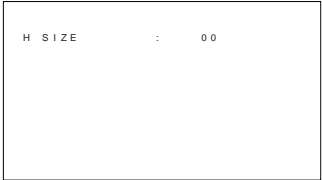


Adjusting the Picture / Resizing and Positioning the Picture

- 2 Press \uparrow/\downarrow to move the cursor (►) to "PIC SIZE" and press ENT.
The PIC SIZE menu appears on the monitor screen.



- 3 Press \uparrow/\downarrow to move the cursor (►) to "H SIZE" and press ENT.
The following menu appears on the monitor screen.



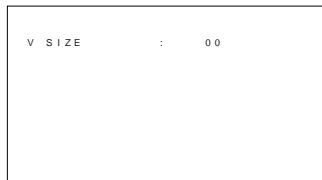
- 4 Press \uparrow/\downarrow to resize the picture.
 \uparrow : to expand horizontal size
 \downarrow : to reduce horizontal size
The horizontal picture size is indicated on the monitor screen in the range from MIN (–50) to MAX (+50). The factory preset value is 00.

Note

The lower limit of the setting may be above the MIN depending on the input signal type.

- 5 Press ENT.
The menu returns to the PIC SIZE menu.

- 6 Press \uparrow/\downarrow to move the cursor (►) to “V SIZE” and press ENT.
The following menu appears on the monitor screen.

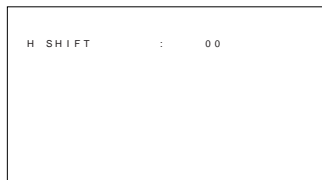


- 7 Press \uparrow/\downarrow to resize the picture.
 \uparrow : to expand vertical size
 \downarrow : to reduce vertical size
The vertical picture size is indicated on the monitor screen from MIN (–50) to MAX (+50). The factory preset value is 00.

- 8 Press ENT.
The menu returns to the PIC SIZE menu.

Adjusting the Picture Position

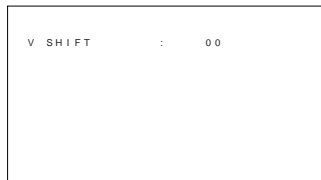
- 1 In the PIC SIZE menu, press \uparrow/\downarrow to move the cursor (►) to “H SHIFT” and press ENT.
The following menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow to shift the picture.
 \uparrow : to shift the picture to the right
 \downarrow : to shift the picture to the left
The horizontal picture position is indicated on the monitor screen from MIN (–50) to MAX (+50). The factory preset value is 00.

- 3 Press ENT.
The menu returns to the PIC SIZE menu.

- 4 Press \uparrow/\downarrow to move the cursor (►) to “V SHIFT” and press ENT.
The following menu appears on the monitor screen.

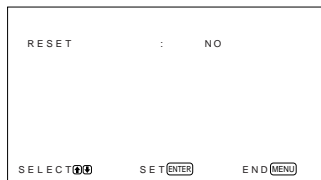


- 5 Press \uparrow/\downarrow to shift the picture.
 \uparrow : to shift the picture upward
 \downarrow : to shift the picture downward
The vertical picture position is indicated on the monitor screen from MIN (–50) to MAX (+50). The factory preset value is 00.

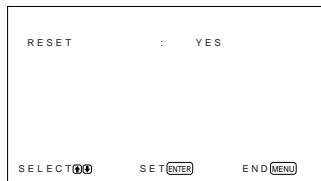
- 6 Press ENT.
The menu returns to the PIC SIZE menu.

Restoring the Original Picture Size and Position

- 1 In the PIC SIZE menu, press \uparrow/\downarrow to move the cursor (►) to “RESET” and press ENT.
The following menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow .
“NO” changes to “YES”.

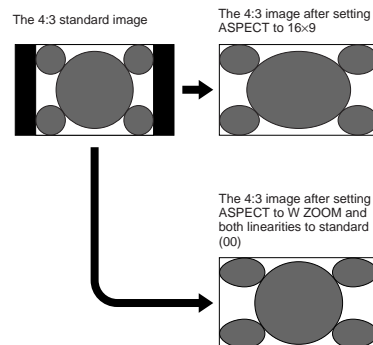


- 3 Press ENT.
The original picture size and position are restored.

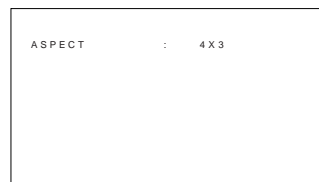
To cancel the reset function, press MENU before pressing ENT.

Enlarging a 4:3 Image to a 16:9 Screen Naturally (Wide Zoom Mode)

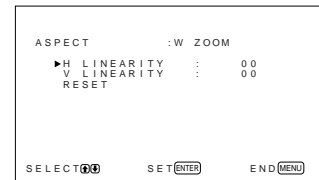
When you ordinarily watch a 4:3 standard image in the 16:9 screen, the image is seen distorted in a horizontal direction due to the difference in proportion. If you use wide zoom mode, the center of the monitor will not be distorted as much and the corners of the monitor will be distorted instead. You can change the linearities by adjusting the H LINEARITY and V LINEARITY settings.



- 1 In the PIC SIZE menu, press \uparrow/\downarrow to move the cursor (►) to “ASPECT” and press ENT.
The following menu appears on the monitor screen.



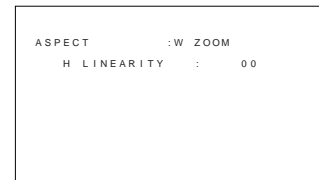
- 2 Press \uparrow/\downarrow to move the cursor (►) to “W ZOOM” and press ENT.
The following menu appears on the monitor screen.



- 3 If you do not change H LINEARITY or V LINEARITY, press ENT.
The menu returns to the PIC SIZE menu. When you change H LINEARITY or V LINEARITY, follow the steps below.

- 4 Press \uparrow/\downarrow to move the cursor (►) to “H LINEARITY” or “V LINEARITY” and press ENT.
H LINEARITY: to change the linearity in the horizontal direction
V LINEARITY: to change the linearity in the vertical direction

The following menu appears on the monitor screen. (The illustration below is for selecting the H LINEARITY.)



- 5 Adjust the screen size with \uparrow/\downarrow .

To restore wide zoom mode items to their original settings

In the ASPECT menu, select W ZOOM and press ENT. Press \uparrow/\downarrow to move the cursor (►) to “RESET” and press ENT. Then select YES with \uparrow/\downarrow and press ENT.

- 6 Press **↑/↓** to move the cursor (▶) to “NAME SET” and press ENT. The following menu appears on the monitor screen.
- ```
SAVE/No.01 [□.....]
NAME SET: (U*★*★.HV%)
SELECT(00) SET(ENTER) END(MENU)
```
- Character list
- 7 Select the character to be changed with **↑/↓** and press ENT. The background of a character in the character list changes to cyan.
- 8 Select a character in the character list with **↑/↓** and press ENT. The selected character is input.
- 9 Repeat steps 7 and 8 until you finish inputting the name, then press MENU. The menu returns to the SAVE menu.

**Note**  
If the storing of the setting fails, the “SAVE ERROR” message appears on the monitor screen. Try to store the setting again.

Calling Up a Stored Setting

- 1 In the MEMORY menu, press **↑/↓** to move the cursor (▶) to “LOAD” and press ENT. The first page of the stored settings appears on the monitor screen.

```
LOAD/No.01 [.....]
- RGB/H31.5Hz/IV59.9Hz/POL[N/N]-
CONTRAST : 80
BRIGHTNESS : 00
COLOR TEMP : HIGH
H SIZE : 00
H SHIFT : 00
V SIZE : 00
V SHIFT : 00
ASPECT : 4X3
ZOOM : X1
SELECT(00) VERIFY(ENTER) END(MENU)
```

- 2 Select a memory number (01 to 20) with **↑/↓** and press ENT. The second page of the stored settings appears on the monitor screen.

```
LOAD/No.01 [.....]
- RGB/H31.5Hz/IV59.9Hz/POL[N/N]-
CHROMA : 00
PHASE : 00
PICTURE AGC : ON
SHARPNESS : MID
H LINEARITY : 00
V LINEARITY : 00
DOT PHASE : 50
TOTAL H PIXEL : 800
SELECT(00) SET(ENTER) END(MENU)
```

The signal type and the color system or horizontal/vertical frequency are displayed in cyan (showing that the signal type of the selected memory number is the same as that of the current setting and you can call up the stored setting) or in red (showing that the signal type of the selected memory number is not the same as that of the current setting and you cannot call up the stored setting).

3 Press ENT. The “LOAD COMPLETED” message appears for about five seconds and the picture is adjusted to the selected setting.

**Note**  
If the loading fails, the “LOAD ERROR” message appears on the monitor screen. Try to load the setting again.

Selecting the On-screen Language

You can select the on-screen language from among English, German, French, Italian, Spanish or Japanese.

- 1 Press MENU. The main menu appears on the monitor screen.

```
MAIN MENU
▶PIC CONTROL
PIC SIZE
CONFIG
MEMORY
REMOTE
STATUS
SELECT(00) SET(ENTER) END(MENU)
```

- 2 Press **↑/↓** to move the cursor (▶) to “CONFIG” and press ENT. The CONFIG menu appears on the monitor screen.

```
CONFIG
▶DISPLAY : ON
CLOSED CAPTION : OFF
COLOR SYSTEM : AUTO
SCREEN FILL : CENTER
POWER CONTROL
SCREEN SAVER
TIME SET
LANGUAGE
SELECT(00) SET(ENTER) END(MENU)
```

- 3 Press **↑/↓** to move the cursor (▶) to “LANGUAGE” and press ENT. The following menu appears on the monitor screen.

```
LANGUAGE
▶ENGLISH
DEUTSCH
FRANCAIS
ITALIANO
ESPAÑOL
日本語
SELECT(00) SET(ENTER) END(MENU)
```

- 4 Press **↑/↓** to move the cursor (▶) to the desired language and press ENT. The on-screen language is switched to the one you selected.
- ENGLISH:** English  
**DEUTSCH:** German  
**FRANCAIS:** French  
**ITALIANO:** Italian  
**ESPAÑOL:** Spanish  
**日本語:** Japanese

- 5 Press MENU. The menu returns to the CONFIG menu.

Reducing Afterimage/Ghosting (Screen Saver Function)

If a bright image that does not change is displayed on a screen (e.g., PC) for a long time, an afterimage (ghosting) may occur. To reduce this afterimage, this monitor has a screen saver function. The screen saver function has two screen savers. One screen saver reverses the image (PIC INVERSION) while the other automatically changes the display position (PIC ORBITING).

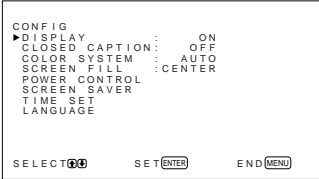
Reversing the Image

- 1 Press MENU. The main menu appears on the monitor screen.

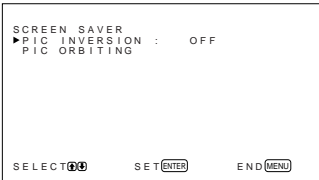
```
MAIN MENU
▶PIC CONTROL
PIC SIZE
CONFIG
MEMORY
REMOTE
STATUS
SELECT(00) SET(ENTER) END(MENU)
```

Reducing Afterimage/Ghosting (Screen Saver Function)

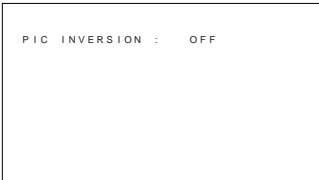
- Press  $\uparrow/\downarrow$  to move the cursor (►) to “CONFIG” and press ENT.  
The CONFIG menu appears on the monitor screen.



- Press  $\uparrow/\downarrow$  to move the cursor (►) to “SCREEN SAVER” and press ENT.  
The following menu appears on the monitor screen.

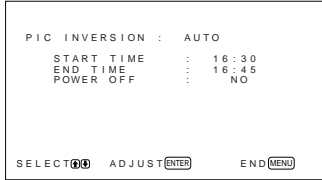


- Press  $\uparrow/\downarrow$  to move the cursor (►) to “PIC INVERSION” and press ENT.  
The following menu appears on the monitor screen.

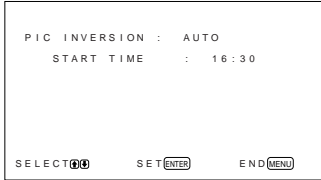


- Select the PIC INVERSION mode.  
**OFF:** to set the PIC INVERSION to OFF  
**ON:** to set the PIC INVERSION to ON  
**AUTO:** Carry out the PIC INVERSION process once a day.

When you select AUTO, the following menu appears.



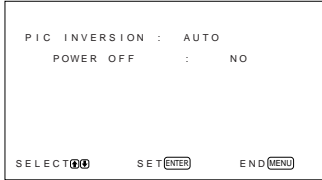
- Press ENT.  
The cursor (►) appears on the monitor screen.
- Press  $\uparrow/\downarrow$  to move the cursor (►) to “START TIME” and press ENT.  
The following menu appears and the background of the hour is displayed in cyan.



- Set the hour when the image is to be reversed with  $\uparrow/\downarrow$  and press ENT.  
The hour is defined and the background of the minute is displayed in cyan.
- Set the minute with  $\uparrow/\downarrow$  and press MENU.  
The minute is defined and the menu returns to the PIC INVERSION menu.
- Similarly, set the time when the PIC INVERSION function is to be cancelled.  
The display will be reversed at the START TIME and will return to the original display at the END TIME. This cycle is carried out automatically once a day.

To set the change to the standby mode at the END TIME

- After selecting AUTO for PIC INVERSION mode, select POWER OFF and press ENT.  
The following menu appears on the monitor screen.



- Select YES with  $\uparrow/\downarrow$  and press MENU.  
The monitor changes to standby mode at the designated END TIME.

Notes

- The power off function, power saving function and on/off timer function in the POWER CONTROL menu cannot be used simultaneously. When one of those functions is set to YES, “— — —” appears next to the others and their functions are not available.
- If you set START TIME and END TIME to the same time, the setting of START TIME takes priority over that of END TIME. The display does not return to the original display at the END TIME.

Changing the Display Position Automatically

- In the SCREEN SAVER menu, press  $\uparrow/\downarrow$  to move the cursor (►) to “PIC ORBITING” and press ENT.  
The following menu appears on the monitor screen.



Reducing Afterimage/Ghosting (Screen Saver Function)

- Press  $\uparrow/\downarrow$  to move the cursor (►) to “ORBITING” and press ENT.  
The following menu appears on the monitor screen.



- Select the ORBITING mode with  $\uparrow/\downarrow$ .  
**OFF:** Cancel the PIC ORBITING function.  
**ON:** Set the PIC ORBITING function.
- Press MENU.  
The menu returns to the PIC ORBITING menu.

- Select ORBIT RANGE (moving distance) or ORBIT CYCLE (time) with  $\uparrow/\downarrow$  and press ENT.  
The following values can be selected:  
**ORBIT RANGE:** 5dot, 10dot, 15dot, 20dot  
**ORBIT CYCLE:** 10sec, 30sec, 1min, 5min

The following menu appears on the monitor screen. (The illustration below is for selecting ORBIT RANGE.)



- Adjust the ORBIT RANGE or ORBIT CYCLE with  $\uparrow/\downarrow$  and press MENU.

When both PIC INVERSION and PIC ORBITING are set to ON

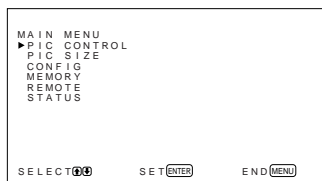
If the PIC ORBITING function is actuated while the picture is reversed, the reversed picture is displayed changing position.

## Controlling Power On/Off Automatically (Power Control Function)

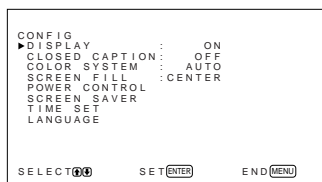
This monitor has two power controlling functions. You can set it to turn off the power automatically after a certain period if there is no input signal from the RGB1 or RGB2 connectors (POWER SAVING function). You can set the time when the power automatically turns on/off (ON/OFF TIMER function).

### Power Saving Function

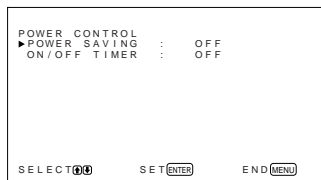
- 1 Press MENU.  
The main menu appears on the monitor screen.



- 2 Press  $\uparrow/\downarrow$  to move the cursor (►) to "CONFIG" and press ENT.  
The CONFIG menu appears on the monitor screen.



- 3 Press  $\uparrow/\downarrow$  to move the cursor (►) to "POWER CONTROL" and press ENT.  
The following menu appears on the monitor screen.



- 4 Press  $\uparrow/\downarrow$  to move the cursor (►) to "POWER SAVING" and press ENT.  
The following menu appears on the monitor screen.



- 5 Press  $\uparrow/\downarrow$  to select the length of the time until the change to power saving mode.  
**OFF:** The power saving function does not work.  
**5min:** Change to the power saving mode after five minutes if there is no input signal.  
**10min:** Change to the power saving mode after 10 minutes if there is no input signal.

The power indicator flashes when the unit is in the power saving mode.

#### To cancel the power saving function

- Input the sync signal again.
- Press the  $\odot$  switch on the control panel or the POWER switch on the Remote Commander.

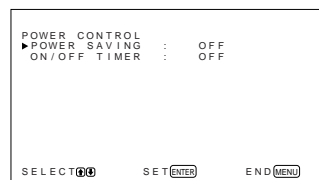
#### Signal specification for using the power saving function

**RGB1:** When the sync signal is connected to the HD/COMP IN connector.

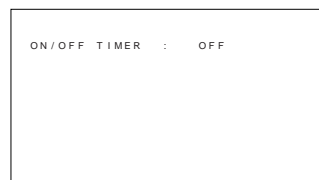
**RGB2:** When the sync signal is connected to the 13th pin of the RGB IN (D-sub 15-pin) connector.

### On/Off Timer Function

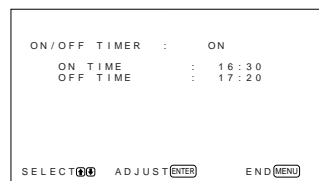
- 1 In the CONFIG menu, Press  $\uparrow/\downarrow$  to move the cursor (►) to "POWER CONTROL" and press ENT.  
The following menu appears on the monitor screen.



- 2 Press  $\uparrow/\downarrow$  to move the cursor (►) to "ON/OFF TIMER" and press ENT.  
The following menu appears on the monitor screen.

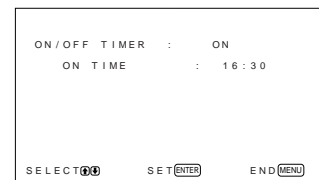


- 3 Select ON with  $\uparrow/\downarrow$  and press ENT.  
The following menu appears on the monitor screen.



- 4 Press ENT.  
The cursor (►) appears on the monitor screen.

- 5 Press  $\uparrow/\downarrow$  to move the cursor (►) to "ON TIME" and press ENT.  
The following menu appears and the background of the hour is displayed in cyan.





- 6 Set the hour with  $\uparrow/\downarrow$  and press ENT.  
The hour is defined and the background of the minute is displayed in cyan.
- 7 Set the minute with  $\uparrow/\downarrow$  and press MENU.  
The minute is defined and the menu returns to the ON/OFF TIMER menu.
- 8 Similarly, set the OFF TIME.

#### Notes

- The power saving function does not work when the signal is input from the LINE connectors.
- If the sync signal is not connected to the HD/COMP IN connector, the monitor does not turn on even if the sync signal is input. Be sure to set POWER SAVING to OFF when only the RGB signal is connected.
- If the sync signal is not connected to the 13th pin of the RGB IN (D-sub 15-pin) connector, the monitor does not turn on even if the sync signal is input. Be sure to set POWER SAVING to OFF when only the RGB signal is connected.
- The power saving function, on/off timer function and power off function in the PIC INVERSION mode cannot be used simultaneously. When one of those functions is set to ON, "—" appears next to the others and their functions are not available.
- If you set ON TIME and OFF TIME to the same time, the setting of ON TIME takes priority over that of OFF TIME. The monitor does not turn off at the OFF TIME.

Self-diagnosis Function

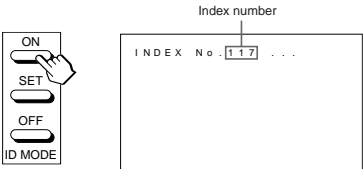
The unit has a self-diagnosis function. This function displays the monitor's condition with the  indicator flashing and numbers on the SERVICE CODE indicator on the left connector panel. The numbers inform you of the monitor's current condition. When the unit is working properly, only the dot at the lower-right position on the SERVICE CODE indicator flashes. If the  indicator flashes, check the number and contact your authorized Sony dealer.

- 1 Check the two-digit number on the SERVICE CODE indicator. The indicator shows one number, or multiple numbers alternately in one second intervals.
- 2 Unplug the unit. Inform your authorized Sony dealer of the number.

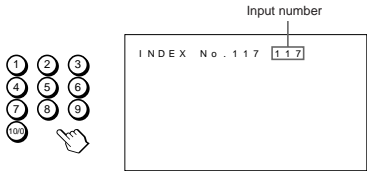
Operating a Specific Monitor With the Remote Commander

Using the supplied Remote Commander, you can operate a specific monitor without affecting other monitors that are installed at the same time.

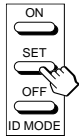
- 1 Press ID MODE ON on the Remote Commander. Monitor index numbers appear in white characters on all the monitors. (Every monitor is allocated an individual preset index number from 1 to 255.) See "To change the index number" in the left-hand column on the next page to change the index number.



- 2 Input the index number of the monitor you want to operate using the 0 – 9 buttons on the Remote Commander. The input number appears right next to the index number of each monitor.

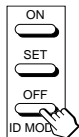


- 3 Press ID MODE SET. The character on the selected monitor changes to cyan while others change to red.



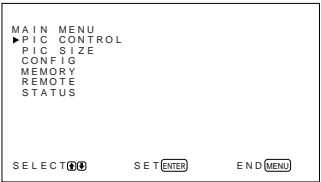
You can operate only the monitor specified. (All operations are available in ID mode except POWER ON/OFF.)


- 4 After the necessary adjustment, press ID MODE OFF. The monitor returns to the normal mode.

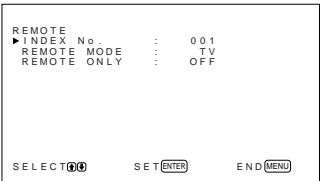



**To change the index number**  
You can change the index number if necessary. When you change the number, use the buttons on the monitor.

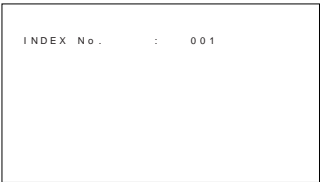
- 1 Press MENU. The main menu appears on the monitor screen.



- 2 Press  to move the cursor (▶) to "REMOTE" and press ENT. The REMOTE menu appears on the monitor screen.



- 3 Press  to move the cursor (▶) to "INDEX No." and press ENT. The following menu appears on the monitor screen.



# Using Other Remote Commander Models

The following operations can be carried out.

- Power on/off
- Input selection
- Menu operations
- Picture adjustments: contrast, phase and chroma
- On-screen display on/off

The operations available and the buttons to be used for each operation are limited depending on each Remote Commander. See the table below.

| Remote Commander model |          | RM-854      | RM-1271   | RM-PJ1292 | RM-PJ1000  |
|------------------------|----------|-------------|-----------|-----------|------------|
| REMOTE MODE setting    |          | TV          | PJ        | PJ        | PJ         |
| Input selection        | RGB1     | RGB         | A         | A         | A          |
|                        | RGB2     | —           | B         | B         | B          |
|                        | LINE     | LINE1       | VIDEO     | VIDEO     | VIDEO      |
| Menu operation         | MENU     | MENU        | PAGE or ← | PAGE or ← | MENU or ←  |
|                        | ENTER    | ENTER       | →         | →         | ENTER or → |
|                        | +        | +           | ↑         | ↑         | ↑          |
|                        | –        | –           | ↓         | ↓         | ↓          |
| Picture adjustment     | Contrast | CONTRAST+/- | CONTR+/-  | CONTR+/-  | CONTR+/-   |
|                        | Chroma   | CHROMA+/-   | COLOR+/-  | COLOR+/-  | COLOR+/-   |
|                        | Phase    | PHASE+/-    | HUE+/-    | HUE+/-    | HUE+/-     |
| On-screen information  |          | DISPLAY     | —         | STATUS ON | STATUS ON  |

## Specifications

### Video processing

|                    |                                                                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Preset signal      | Input: formats (See page 22 (GB).)                                                                                                                                                             |
| Sampling rate      | 13.5 to 140 MHz                                                                                                                                                                                |
| Panel system       | AC-type Plasma Display Panel                                                                                                                                                                   |
| Display resolution | 510A2W: 1 024 dots × 1 024 lines<br>500A3W: 852 dots × 480 lines                                                                                                                               |
| Pixel pitch        | 510A2W: 0.90 (horizontal) × 0.51 (vertical) mm ( $\frac{1}{16} \times \frac{1}{32}$ inches)<br>500A3W: 1.08 (horizontal) × 1.08 (vertical) mm ( $\frac{1}{16} \times \frac{1}{16}$ inches)     |
| Picture size       | 510A2W: 921 (horizontal) × 522 (vertical) mm ( $36 \frac{3}{4} \times 20 \frac{3}{4}$ inches)<br>500A3W: 920 (horizontal) × 518 (vertical) mm ( $36 \frac{1}{4} \times 20 \frac{1}{2}$ inches) |
| Panel size         | 510A2W: 42-inch (diagonal 1 058 mm)<br>500A3W: 42-inch (diagonal 1 056 mm)                                                                                                                     |

### Inputs and Outputs

#### RGB1

|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| R (R-Y)/ G (Y)/B (B-Y) IN | BNC-type (×3)                                             |
|                           | 0.714 Vp-p/non-composite 75-ohm (automatic termination)   |
|                           | 1 Vp-p/composite 75-ohm (automatic termination)           |
| SYNC IN (HD/COMP, VD)     | BNC-type (×2)                                             |
|                           | H (or composite) SYNC, V SYNC, 1 to 5 Vp-p high impedance |
|                           |                                                           |
| AUDIO IN (L, R)           | Phono jack (×2)                                           |
|                           | 500 mVrms, high impedance                                 |

|                            |                               |
|----------------------------|-------------------------------|
| R (R-Y)/ G (Y)/B (B-Y) OUT | BNC-type (×3) Loop-through    |
|                            |                               |
| SYNC OUT (HD/COMP, VD)     | BNC-type (×2) Loop-through    |
|                            | H (or composite) SYNC, V SYNC |
|                            |                               |
| AUDIO OUT (L, R)           | Phono jack (×2) Loop-through  |

#### RGB2

|                 |                                                      |
|-----------------|------------------------------------------------------|
| RGB IN          | D-sub 15-pin (See “Pin assignment” on page 40 (GB).) |
| AUDIO IN (L, R) | Phono jack (×2)                                      |
|                 | 500 mVrms, high impedance                            |

#### LINE (NTSC, PAL, SECAM, NTSC4.43, PAL60)

|                 |                                                                                |
|-----------------|--------------------------------------------------------------------------------|
| VIDEO IN        | BNC-type (×1)                                                                  |
|                 | Composite video, 1 Vp-p ±2 dB sync negative, 75-ohm (automatic termination)    |
|                 |                                                                                |
| Y/C IN          | Mini DIN 4-pin type (×1)                                                       |
|                 | Y (luminance): 1 Vp-p ±2 dB sync negative, 75-ohm (automatic termination)      |
|                 | C (chrominance): Burst 0.286 Vp-p ±2 dB (NTSC), 75-ohm (automatic termination) |
| AUDIO IN (L, R) | Burst 0.3 Vp-p ±2 dB (PAL), 75-ohm (automatic termination)                     |
|                 | Phono jack (×2)                                                                |
|                 | 500 mVrms, high impedance                                                      |

|           |                                       |
|-----------|---------------------------------------|
| VIDEO OUT | BNC-type (×1) Loop-through            |
| Y/C OUT   | Mini DIN 4-pin type (×1) Loop-through |

|                  |                              |
|------------------|------------------------------|
| AUDIO OUT (L, R) |                              |
|                  | Phono jack (×2) Loop-through |

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| MONITOR OUT AUDIO (L, R) |                                                     |
|                          | Phono jack (×2)                                     |
|                          | Maximum 500 mVrms (Variable output), high impedance |

|                     |                         |
|---------------------|-------------------------|
| CONTROL S (IN, OUT) |                         |
|                     | Mini jack (stereo) (×2) |

|                  |        |
|------------------|--------|
| REMOTE (RS-232C) |        |
|                  | 5 Vp-p |

|          |                                                        |
|----------|--------------------------------------------------------|
| SPEAKERS | Mini DIN 8-pin type (×1)                               |
|          | 6 to 16 ohms, 7 W + 7 W (when the impedance is 8 ohms) |



Specifications

General

Power requirements

510A2W: 100 to 120 V AC,  
50/60 Hz, 4.7 A/410 W  
220 to 240 V AC, 50/60 Hz,  
2.2 A/400 W  
500A3W: 100 to 120 V AC,  
50/60 Hz, 3.9 A/380 W  
220 to 240 V AC, 50/60 Hz,  
2.0 A/360 W

Operating conditions

Temperature: 0 °C to 35 °C  
(32 °F to 95 °F)  
Humidity: 20% to 90%  
(no condensation)  
Atmospheric pressure: 700 to  
1 060 hPa

Storing/transporting conditions

Temperature: -10 °C to +40 °C  
(14 °F to 104 °F)  
Humidity: 20% to 90%  
(no condensation)  
Atmospheric pressure: 700 to  
1 060 hPa

Dimensions

1 036 × 636 × 152 mm  
(40 7/8 × 25 1/8 × 6 inches) (w/h/d)

Mass

45 kg (99 lb 3 oz)

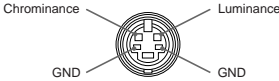
Supplied accessories

AC power cord (1)  
AC plug holder (1)  
Remote Commander RM-921 (1)  
Size AA (R6) batteries (2)  
Ferrite core (2)  
Foot support bracket (2)  
Screws for foot support bracket (6)  
Monitor stabilizer (2)  
Operating instructions (1)

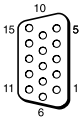
Design and specifications are subject to change  
without notice.

Pin assignment

Y/C jack (Mini DIN 4-pin)



RGB IN connector (D-sub 15-pin)



| Pin No. | Signal                   |
|---------|--------------------------|
| 1       | Red video or R-Y         |
| 2       | Green video or Y         |
| 3       | Blue video or B-Y        |
| 4       | Ground                   |
| 5       | Ground                   |
| 6       | Red ground               |
| 7       | Green ground             |
| 8       | Blue ground              |
| 9       | Not used                 |
| 10      | Ground                   |
| 11      | Ground                   |
| 12      | SDA                      |
| 13      | H sync or composite sync |
| 14      | V sync                   |
| 15      | SCL                      |

This section is reprinted  
from operation manual.

**1-2. MB-514 Operating Instructions**

3-864-657-03(1)

**SONY®**  
***Mounting Bracket***

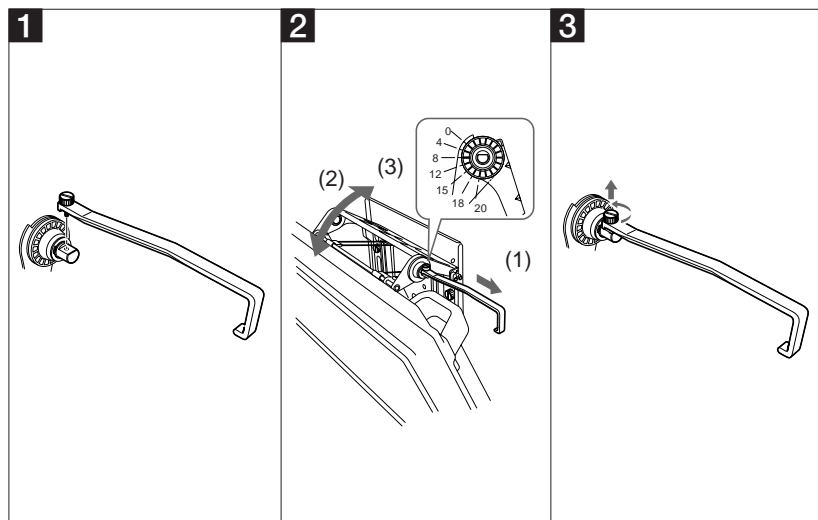
---

Operating Instructions

**MB-514**

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## Changing the Angle of the Monitor



### English

You can change the angle of the monitor panel by adjusting the angle of the mounting bracket.

#### Note

If you have any questions about installing the mounting bracket, contact your authorized Sony dealer.

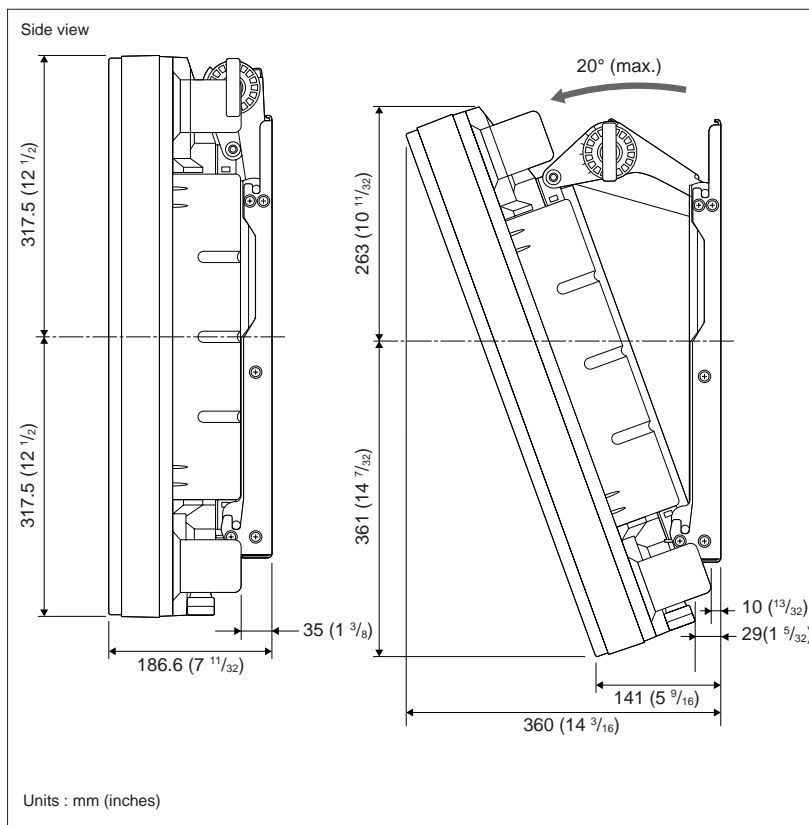
- 1** Attach the handle on the mounting bracket with the supplied screw (provided with the handle).
- 2** Adjust the monitor panel angle.  
You can change the angle from 0° to 20° (7 levels).  
(Approx. 0°, 4°, 8°, 12°, 15°, 18° and 20°)  
(1) Pull the handle down to unsnap the lock.  
(2) Push the panel to the desired angle.  
(3) Let go of the handle and adjust the panel angle so it can be locked.

See the angle marks.

- 3** Remove the handle.

Store the handle with the Operating Instructions.

## Dimensions of the assembled bracket



Design and specifications are subject to change without notice.

This section is reprinted  
from installation manual.

### 1-3. MB-514 Installation Manual for Dealers

3-864-658-04(1)

SONY®

# *Mounting Bracket*

---

Installation Manual for Dealers

**MB-514**

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WARNING

Install the monitor on a wall that can hold a weight of at least 400kg (881lb14 oz). Reinforce the wall, if needed.

Table of contents

English

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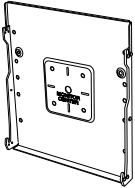
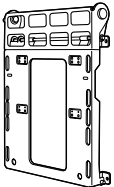
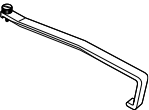


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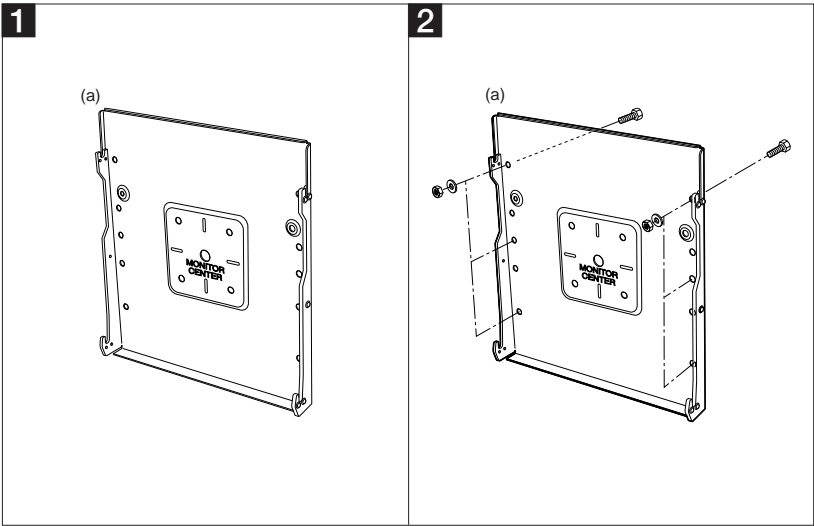
Overview

The mounting bracket MB-514 is designed to install the Sony flat panel monitor on a wall.

Parts List

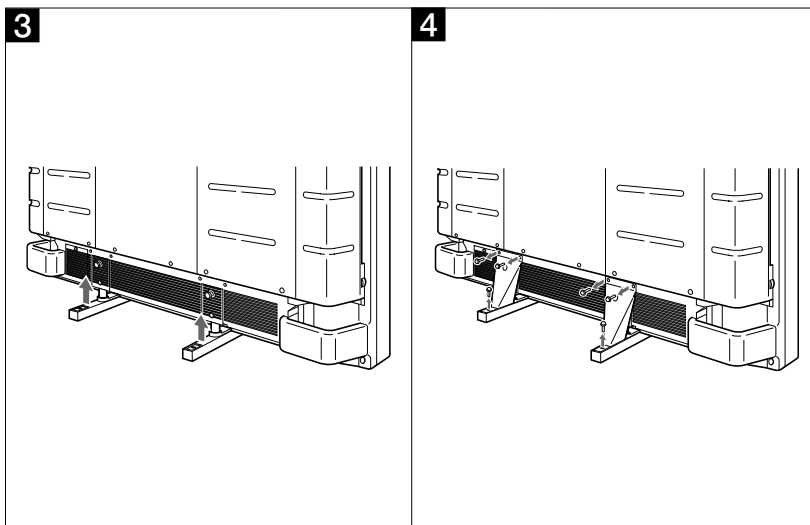
|     |                      |                                                                                     |
|-----|----------------------|-------------------------------------------------------------------------------------|
| (a) | Wall bracket (1)     |    |
| (b) | Mounting bracket (1) |    |
| (c) | Handle (1)           |   |
| (d) | Knob (2)             |  |
| (e) | Screw M5 (8)         |  |

Installation



English

- 1 Decide where on the wall you want to install the wall bracket (a).  
The center hole of the wall bracket will be matched the center of the monitor panel.
- 2 Install the wall bracket (a) on the wall.  
Use six M8 bolts or concrete anchors, six nuts and six washers (not supplied).



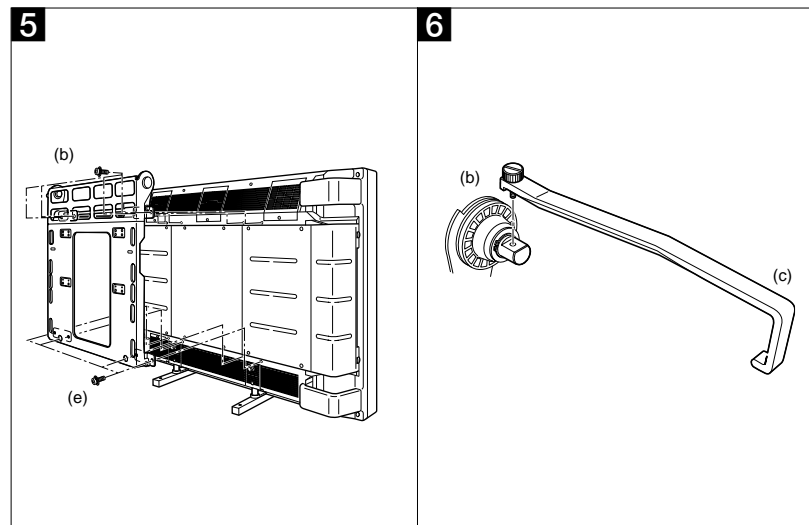
## English

- 3** Pull down the retractable feet and stand the monitor up.  
For details on using the retractable feet, see the Operating Instructions for the Sony flat panel monitor.

If the retractable feet and the foot support brackets are already installed on the monitor, go to Step 4. Otherwise, go to Step 5.

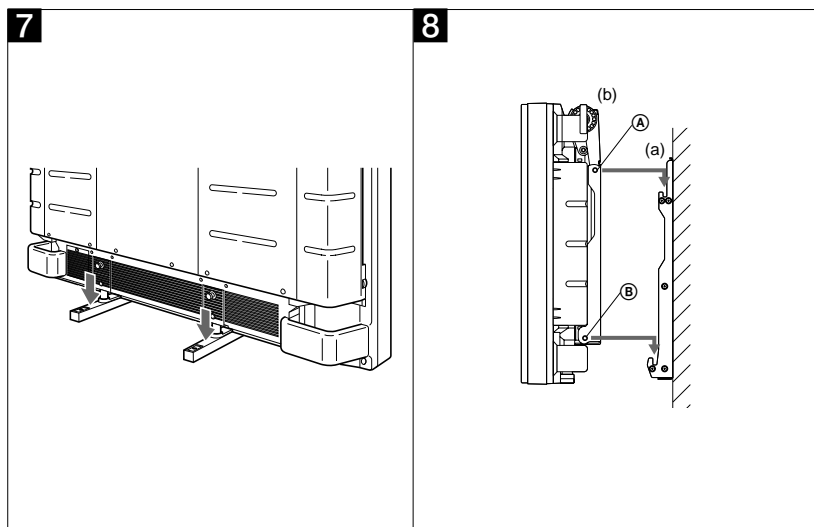
- 4** Remove the foot support brackets from the retractable feet.  
For details on removing the foot support brackets, see the Operating Instructions for the Sony flat panel monitor.

## Installation



## English

- 5** Install the mounting bracket (b) on the flat monitor. Match the mounting bracket screw holes to the monitor screw holes, then insert and tighten eight M5 screws (e) to lock the bracket onto the monitor.
- 6** Attach the handle (c) on the mounting bracket (b) with the supplied screw (provided with the handle).



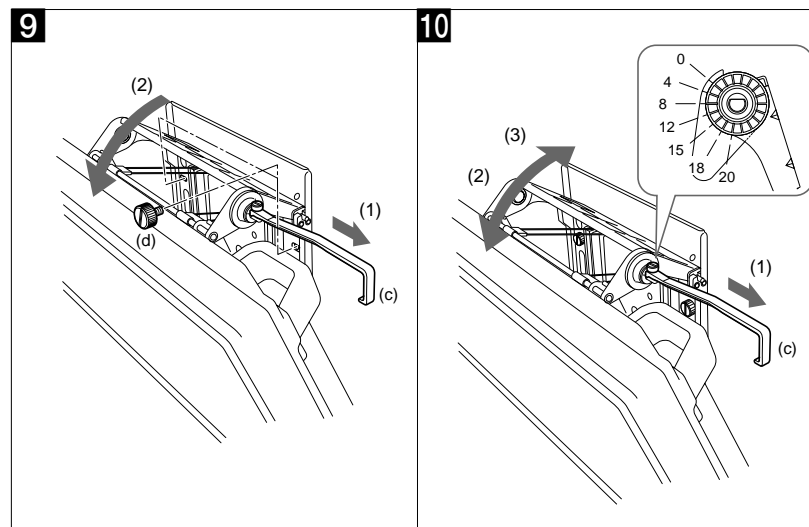
## English

- 7** Store the retractable feet.  
For details on using the retractable feet, see the Operating Instructions for the Sony flat panel monitor.
- 8** Install the flat monitor with the mounting bracket (b) on the wall bracket (a).  
Hook two mounting bracket shafts (A, B) on the wall bracket grooves.

### Note

Make sure that the shafts hook properly into the grooves.

## Installation

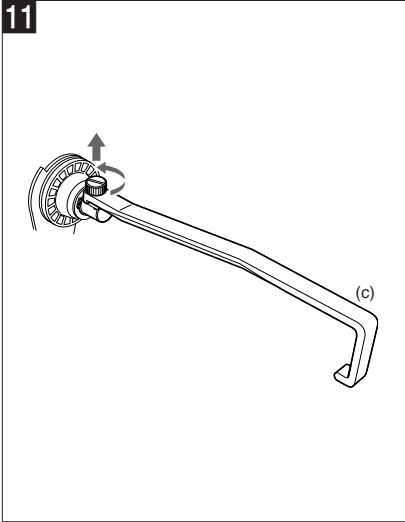


## English

- 9** Lock the mounting bracket shafts (hooked in Step 8) by turning two knobs (d) so that the shafts do not move vertically.  
Pull the handle (c) out (installed in Step 6) and unsnap the lock. Pull down the monitor panel so the mounting bracket angle is fully extended. Turn two knobs (d) and lock the monitor panel.
- 10** Adjust the monitor panel angle.  
You can change the angle from 0° to 20° (7 levels). (Approx. 0°, 4°, 8°, 12°, 15°, 18° and 20°)  
(1) Pull the handle (c) down to unsnap the lock.  
(2) Push the panel to the desired angle.  
(3) Let go of the handle and adjust the panel angle so it can be locked.

See the angle marks.



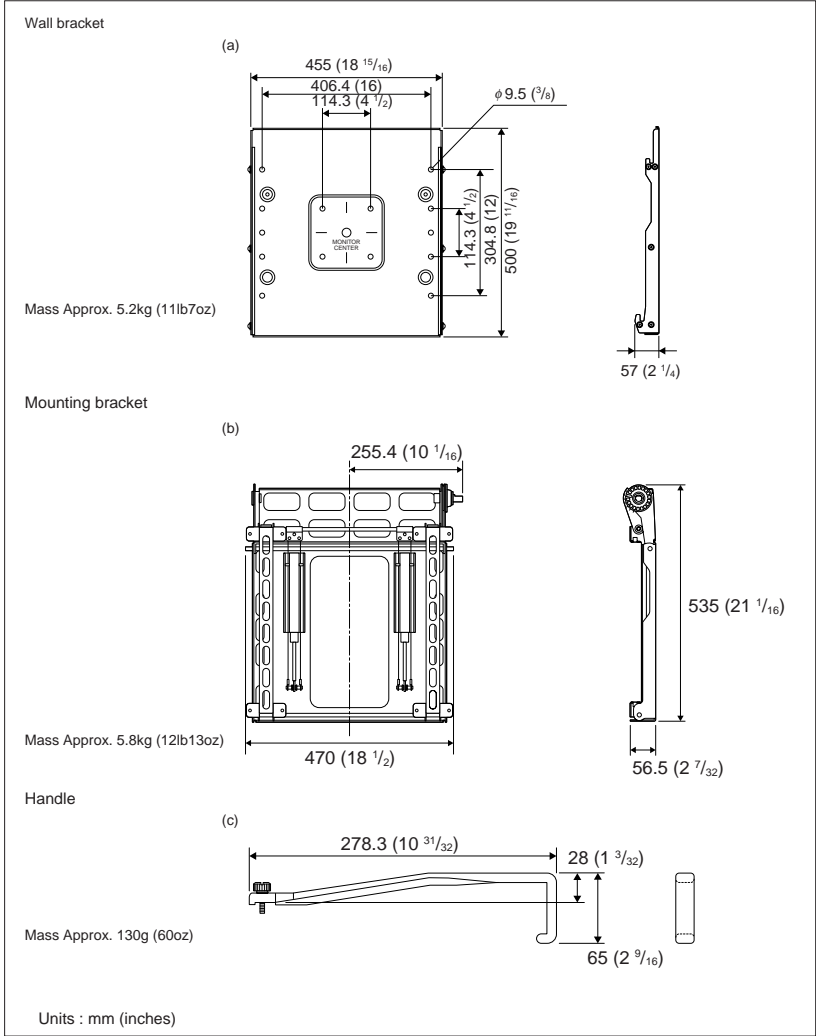


## English

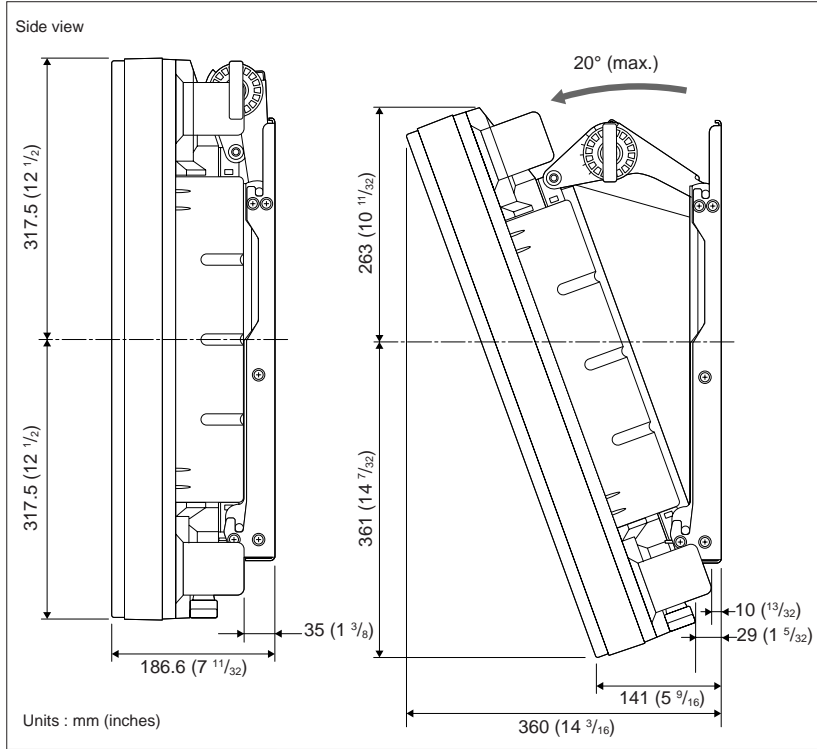
- 11** Loosen the screw and remove the handle.  
Store the handle with the Operating Instructions.

## Specifications

### Dimensions



Dimensions of the assembled bracket



Design and specifications are subject to change without notice.

SONY®

# Input Adaptor

## Operating Instructions

4-074-891-01(1)

### 1-4. BKM-500 Operating Instructions

## BKM-500

Sony Corporation © 1999 Printed in Japan

### English

## WARNING

### Owner's Record

The model and serial numbers are located on the rear.  
Record the model and serial numbers in the spaces  
provided below. Refer to these numbers whenever you call  
upon your Sony dealer regarding this product.

Model No. BKM-500      Serial No. \_\_\_\_\_

**To prevent fire or shock hazard, do not  
expose the unit to rain or moisture.**

**Do not open the cabinet.  
Refer servicing to qualified personnel  
only.**

For installation, consult your nearest Sony dealer.

### For the customers in the U.S.A

This equipment has been tested and found to comply with  
the limits for a Class A digital device, pursuant to Part 15 of  
the FCC Rules. These limits are designed to provide  
reasonable protection against harmful interference when  
the equipment is operated in a commercial environment.  
This equipment generates, uses, and can radiate radio  
frequency energy and, if not installed and used in  
accordance with the instruction manual, may cause harmful  
interference to radio communications. Operation of this  
equipment in a residential area is likely to cause harmful  
interference in which case the user will be required to  
correct the interference at his own expense.

You are cautioned that any changes or modifications not  
expressly approved in this manual could void your authority  
to operate this equipment.

### For the customers in Europe

### WARNING

This is a Class A product. In a domestic environment this  
product may cause radio interference in which case the  
user may be required to take adequate measures.

This section is reprinted  
from operation manual.

**English****For BKM-500 Users**

This Input Adaptor is for the PFM-500A/510A Series Sony Flat Panel Monitors. You can use the adaptor after installing it on the monitor.

For details on how to operate the Input Adaptor, refer to the Operating Instructions for the monitor.

*For details on installation, contact your authorized Sony dealer.*

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Sony  line <http://www.world.sony.com/>

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SONY

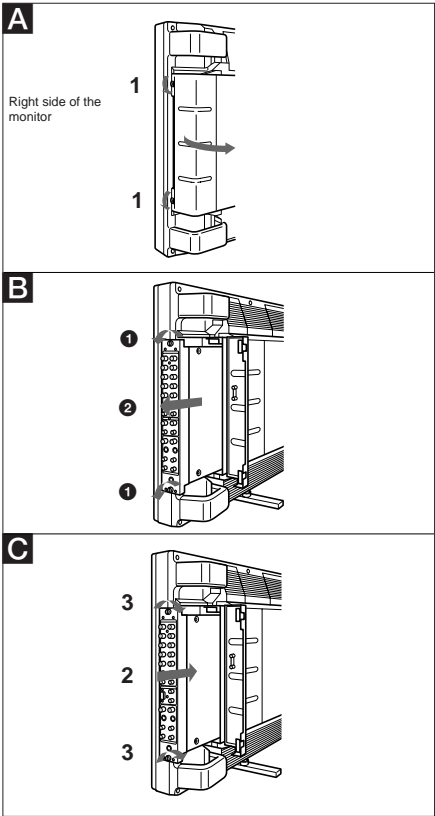
4-074-892-01 (1)

# Input Adaptor

Installation Manual for  
Dealers

## BKM-500

Sony Corporation ©1999 Printed in Japan



### English

Follow the steps below to install the Input Adaptor to the PFM-500A/510A series Flat Panel Monitors.

### Installing the Input Adaptor (Figures A, B and C)

#### Before installation

- Before installation, make sure that the power to all the equipment is off. To turn the monitor completely off, press the switch so that the monitor changes to standby mode, then disconnect the power cable from the wall outlet.
- If the monitor has been installed on a wall, remove it from the wall.
- If you are using the SS-X500A Speaker System, remove the right speaker.
- Install the Input Adaptor to the monitor on a stable, flat and horizontal surface. Lock the monitor by using the retractable feet.

- 1 On the right side of the monitor, locate the screws that lock the panel cover on the monitor. Loosen the screws by turning them counterclockwise and open the cover.

#### A

If another connector panel has been installed on the monitor, remove the connector panel as follows:

- 1 Loosen the two screws that are at the top and bottom of the right connector panel.  
You can now remove the connector panel. **B**
- 2 Slowly pull out the connector panel from the monitor. **B**

- 2 First make sure that the direction (top/bottom) of the Input Adaptor, then correct and insert it into the monitor. Make sure that the two connectors inside the monitor are connected firmly. **C**

- 3 Tighten the top and the bottom screws. **C**

- 4 Connect the required cables. Close the panel cover (opened in Step 1) and lock it with the cover screws.

#### Caution

Do not touch the connectors in the monitor. Doing so may be result in injury to yourself or damage to the connectors.

Sony online <http://www.world.sony.com/>

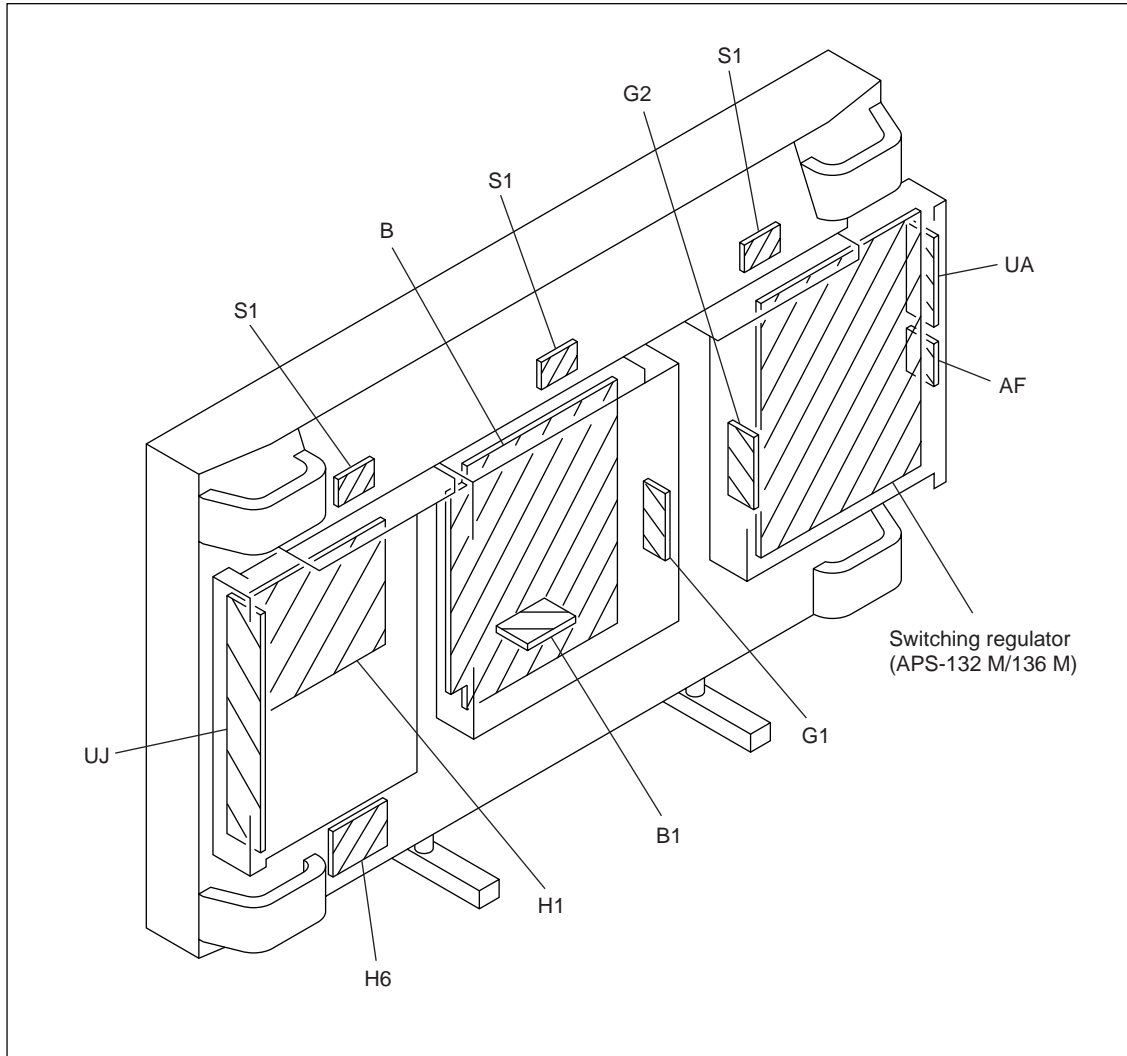
Printed on recycled paper



## Section 2

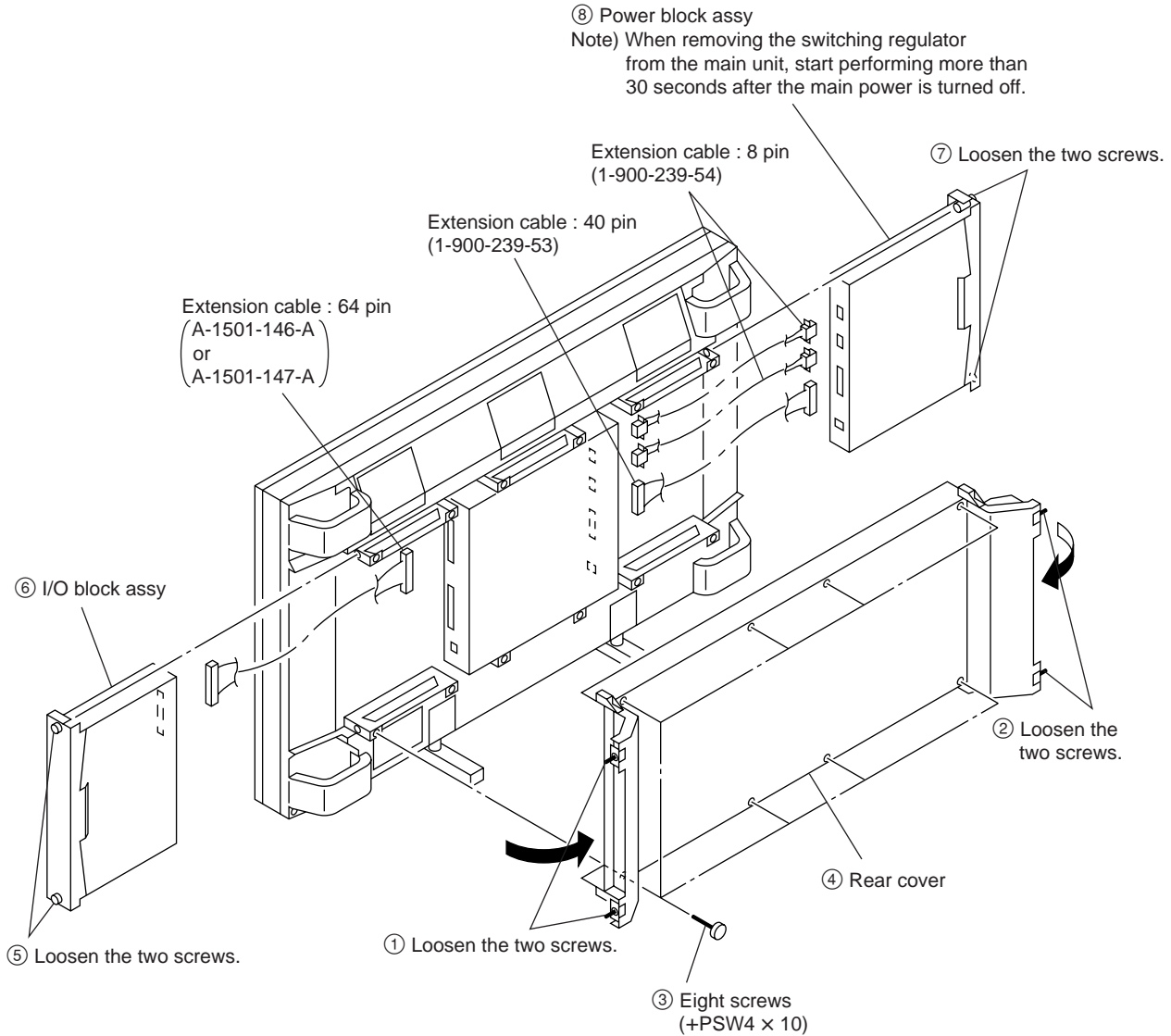
### Service Informations

#### 2-1. Circuit Boards Location



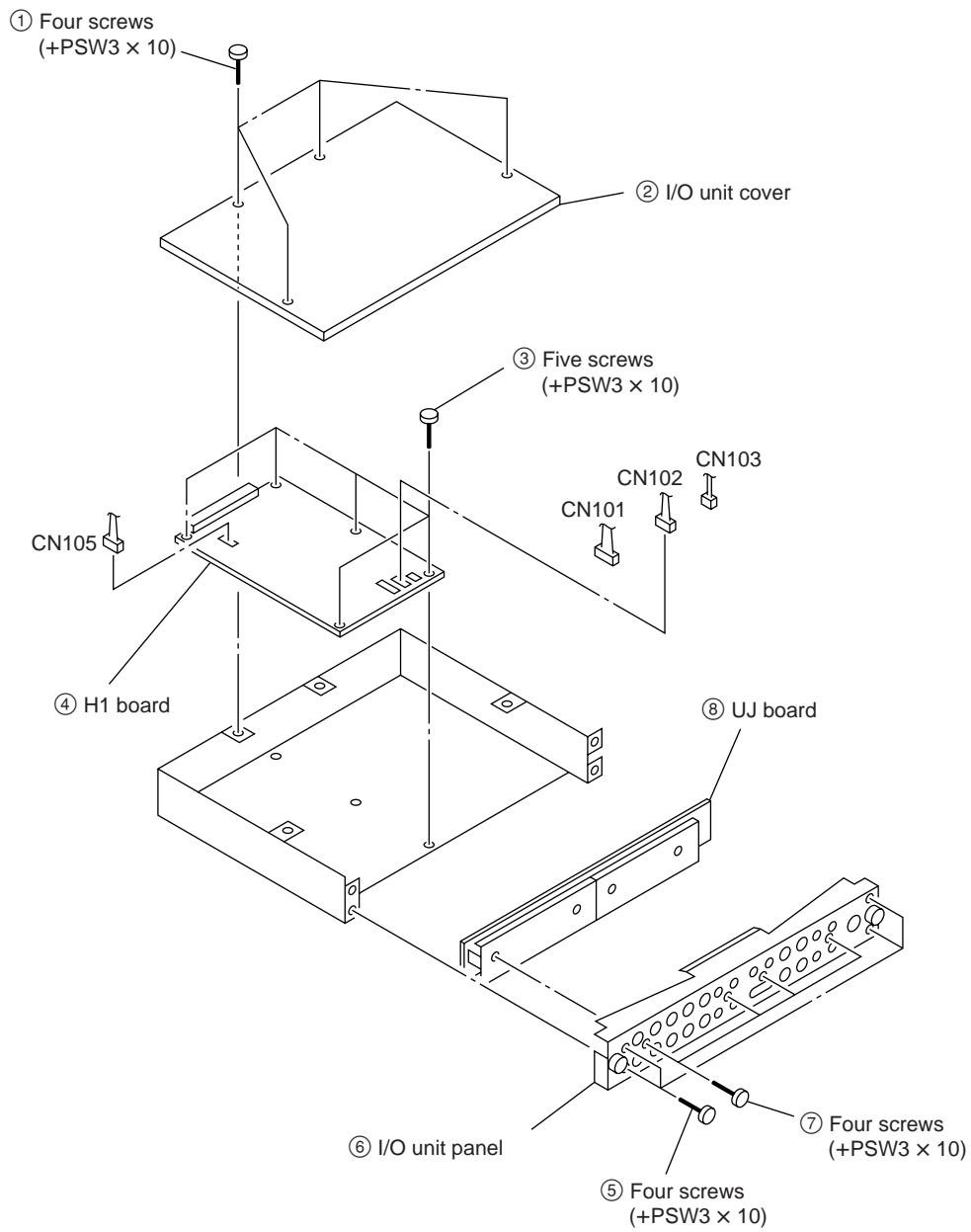
## 2-2. Disassembly

### 2-2-1. I/O Block Assy and Power Block Assy Removal and Extension Cable Connection

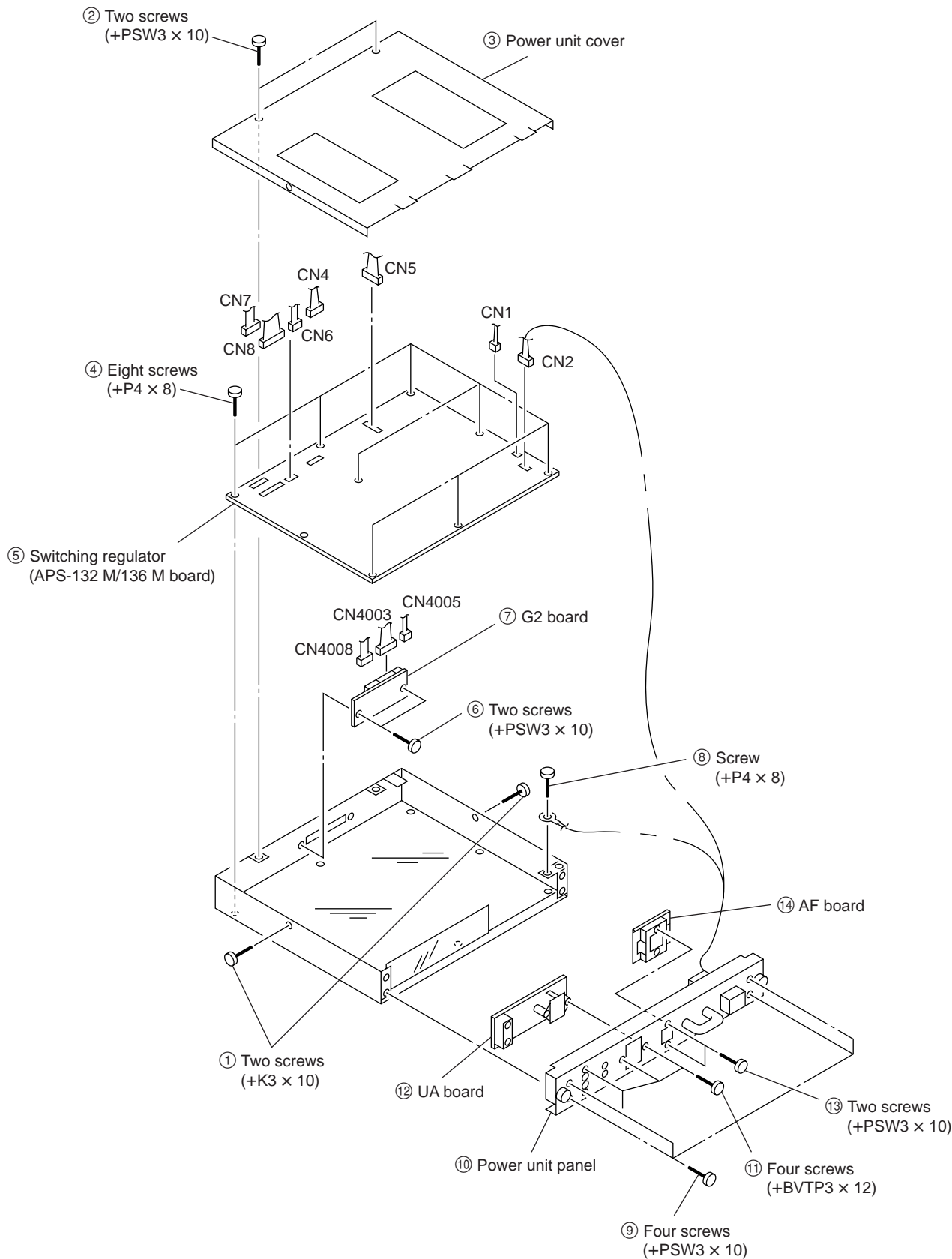




## 2-2-2. H1 and UJ Boards Removal

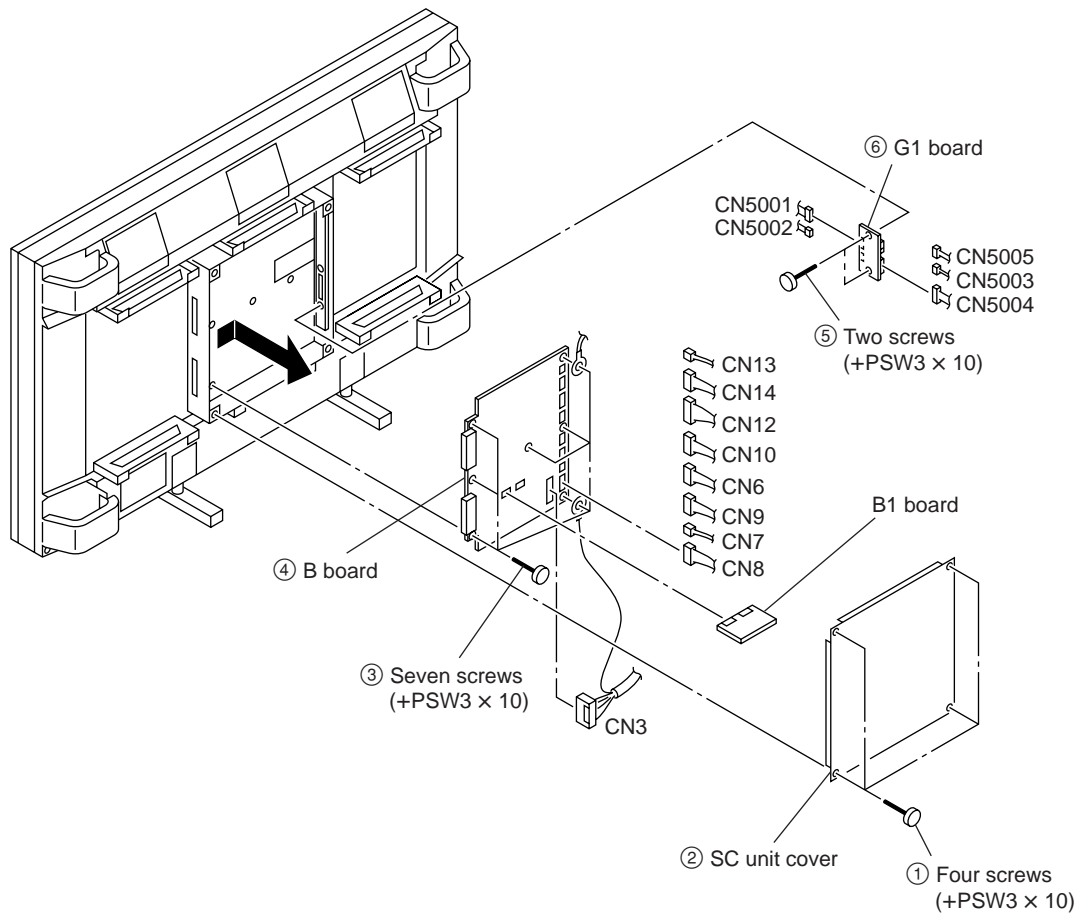


2-2-3. AF, G2, UA Boards and Switching Regulator (APS-132 M/136 M Board)  
Removal



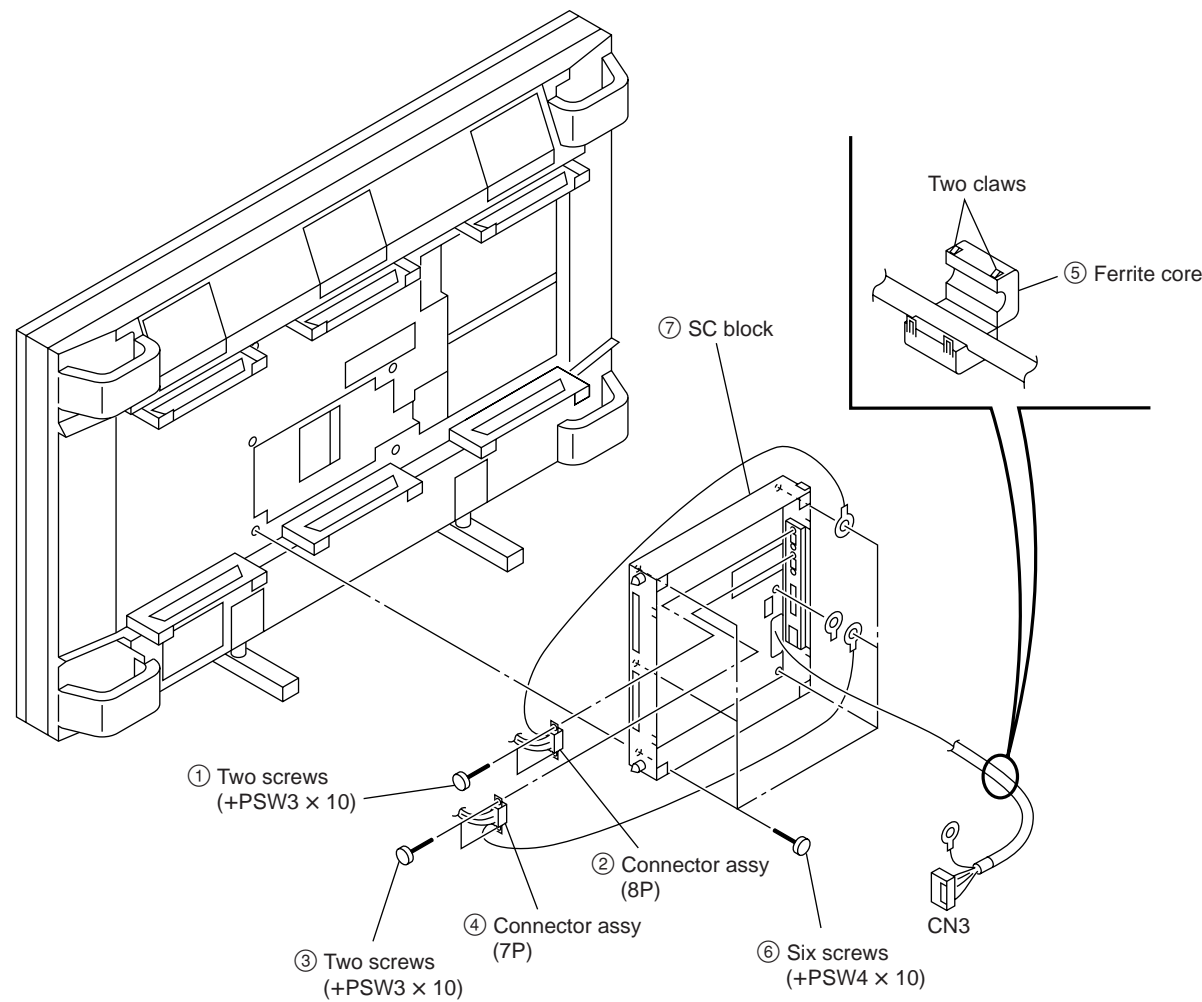
## 2-2-4. B and G1 Boards Removal

\* Remove the Rear cover, I/O block assy and Power block assy. (Refer to 2-2-1.)



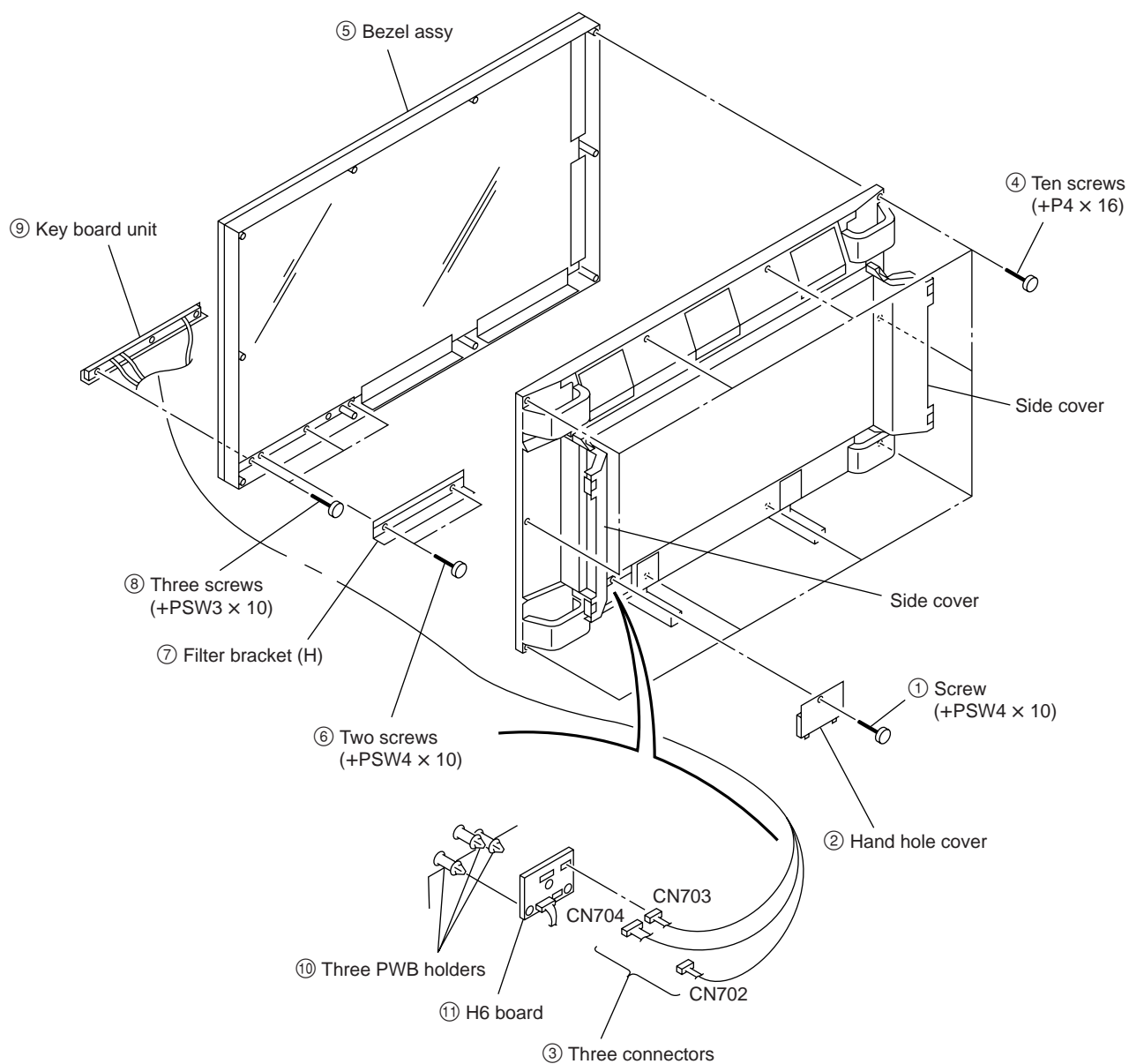
2-2-5. SC Block Removal

\* Remove the B board. (Refer to 2-2-4.)



## 2-2-6. Bezel Assy and H6 Board Removal

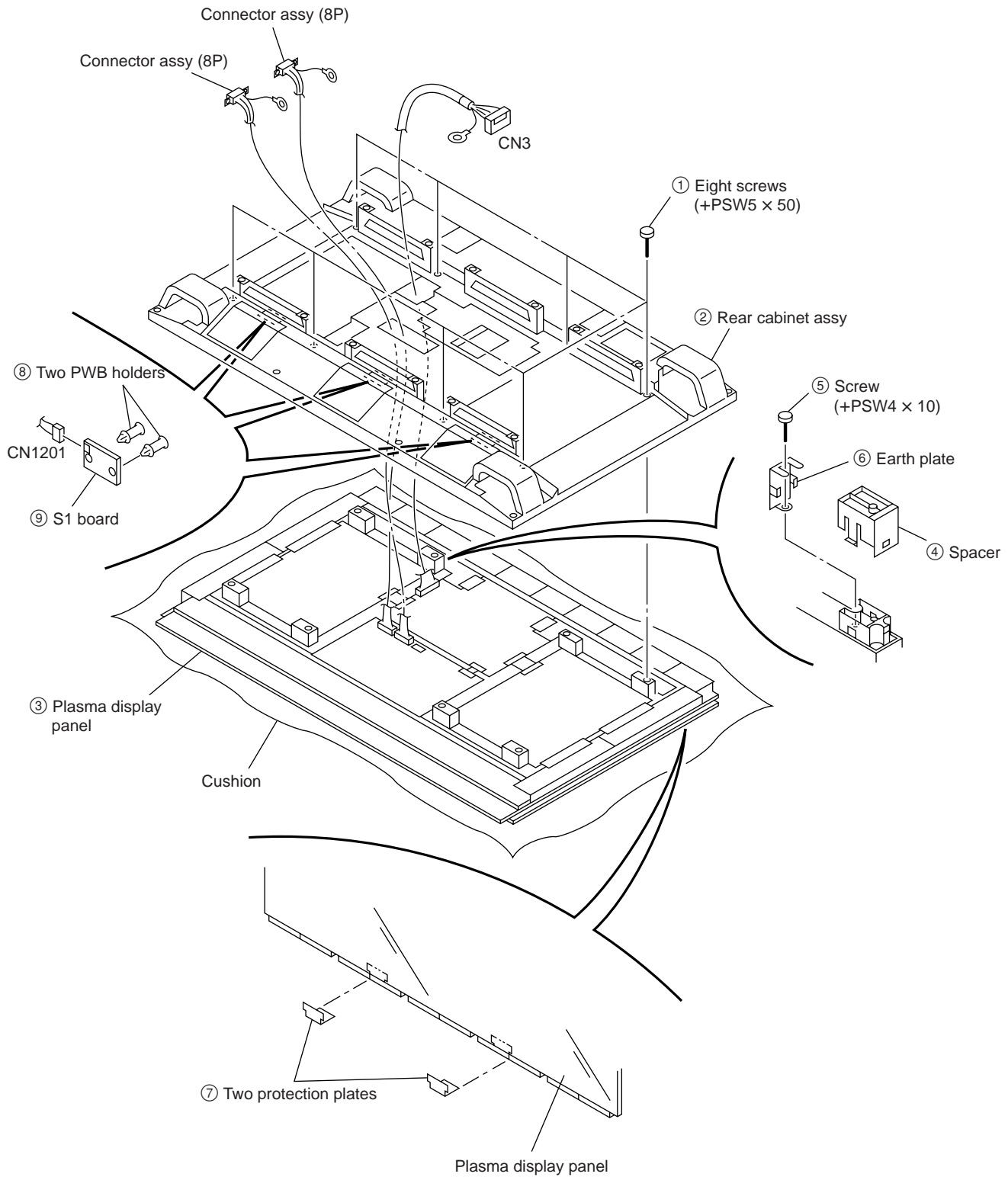
\* Open the side cover. (Refer to 2-2-1.)



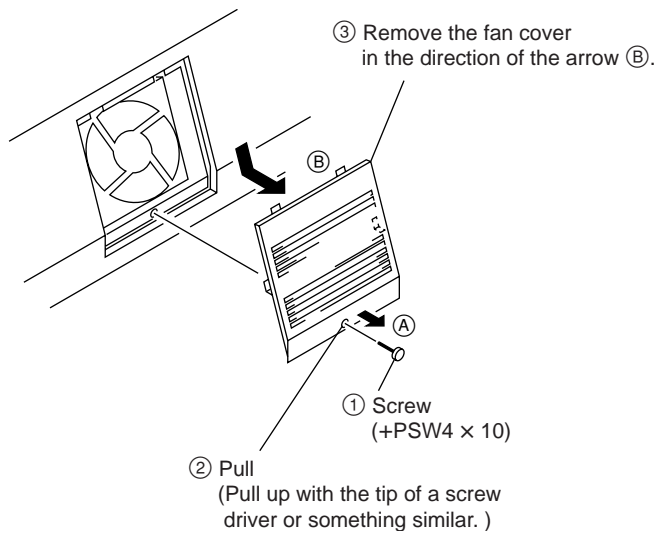
## 2-2-7. Plasma Display Panel and S1 Board Removal

\* Remove the Bezel assy. (Refer to 2-2-6.)

\* Remove the SC block. (Refer to 2-2-5.)



## 2-2-8. Fan Cover Removal







## Section 3

### Electrical Adjustments

#### 3-1. Equipment Required

- Oscilloscope  
Tektronix 2465 or equivalent  
(band width : 350 MHz or more)
- VG (Programmable video signal generator)  
VG814 or equivalent
- Frequency counter  
Advantest TR5821AK or equivalent
- Digital voltmeter  
Advantest TR6845 or equivalent
- Potential transformer
- Regulated DC power supply
- Remote commander (RM-921)

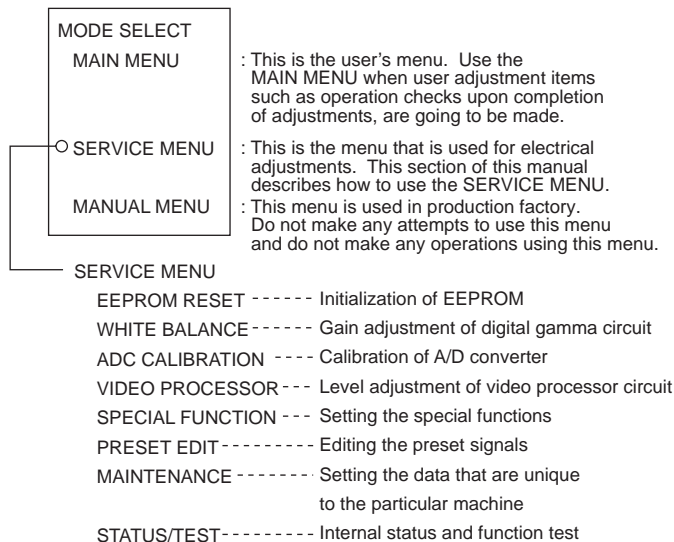
Note : Perform the following adjustments at least 5 minutes after turning on the power.

#### 3-2. Electrical Adjustments Using the Service Mode

The electrical adjustments can be performed using the remote commander RM-921 supplied with the PFM-500A3W/510A2W. The remote commander has the Service Mode. Select the Service Mode to perform the electrical adjustments as listed below.

##### ● Service Menu

When you enter the Service Mode, the mode menu appears as shown below. The mode menu contains the three menus of MAIN MENU, SERVICE MENU and MANUAL MENU as shown. Select the SERVICE MENU to perform the electrical adjustments.



How to enter the Service Mode :

In the STAND-BY state, press the keys in the following order.

**DISPLAY** → **5** → **VOL+** → **POWER**

How to exit the Service Mode :

Turn off the main power once and back on to enter the STAND-BY state or turn off the main power to exit the Service Mode.

##### ● Operation of remote commander in the Service Mode

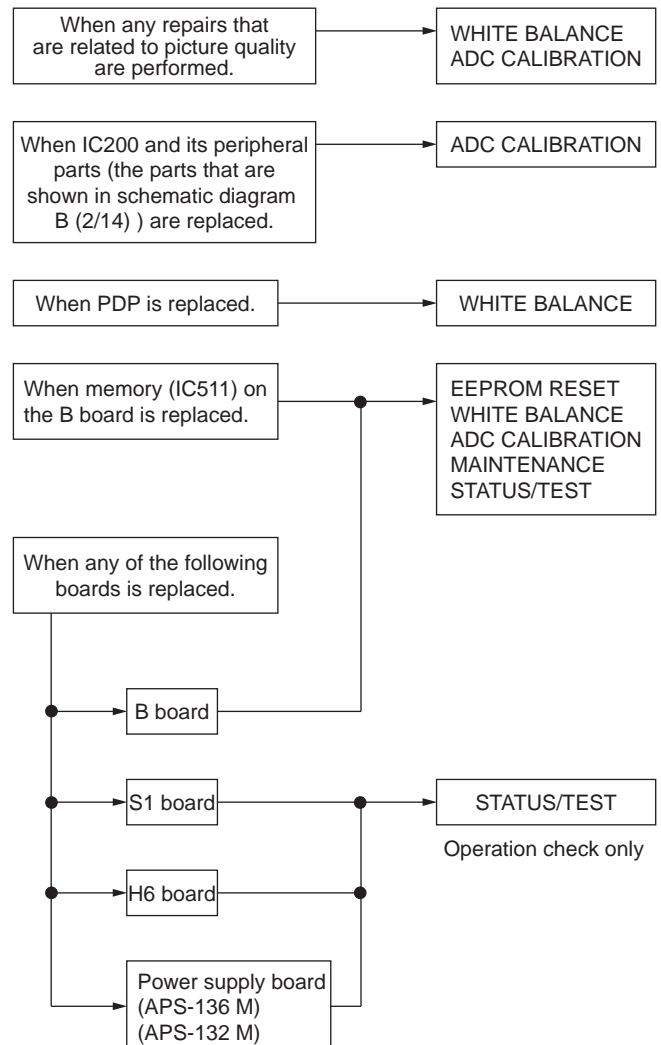
The four keys of MENU, ENTER, SELECT+ and SELECT- are the basic operation keys in the same manner as in the user adjustment. The other keys can be operated in the same manner as in the user adjustment.

Note : In the previous models PFM-500A1W/A2S and PFM-510A1W, the electrical adjustments for service are performed using the numeric keys. However, in this model, the electrical adjustments for service are performed using the basic operation keys in the same manner as in the user adjustment.

When the main power is turned on while the machine is in the previous models, the OSD (on-screen display) appears automatically. However, in this mode, the OSD appears when the MENU key is pressed in the same manner as in the user menu.

##### ● The electrical adjustments using the Service Mode become necessary in the following cases.

When any of the following repairs is performed, adjustment using the service mode becomes necessary.



## SERVICE MENU

### 1. EEPROM RESET

---

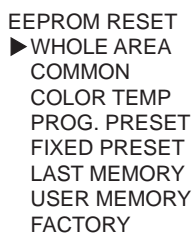
#### EEPROM Configuration

Table 1 shows the configuration of EEPROM. The entire area or the respective areas of the EEPROM can be separately initialized.

---

#### Menu Structure

Select the desired area of EEPROM to be initialized using the following menu.



```
EEPROM RESET
▶ WHOLE AREA
COMMON
COLOR TEMP
PROG. PRESET
FIXED PRESET
LAST MEMORY
USER MEMORY
FACTORY
```

To initialize the desired area, firstly select the desired item from the EEPROM RESET menu. Change the selected item from CANCEL to EXECUTE. Then press ENTER.

a) **WHOLE AREA**

The entire area of the EEPROM is initialized. Initializing the entire area of the EEPROM has the same result as all menu items of COMMON, COLOR TEMP, PROG. PRESET, FIXED PRESET, LAST MEMORY, USER MEMORY and FACTORY are executed.

b) **COMMON**

Only the COMMON area of the EEPROM as shown in Table 1 is initialized.  
When the COMMON area is initialized, the data that is unique to the particular machine and the common data (CONFIG MENU, REMOTE MENU) are initialized.

c) **COLOR TEMP**

Only the COLOR TEMP area of the EEPROM as shown in Table 1 is initialized.  
When the COLOR TEMP area is initialized, the color temperature data in HIGH, LOW and the user setup data from 1 to 6 are initialized to 255. The users names are also initialized to “1” to “6”.

d) **PROG. PRESET**

Only the PROG. PRESET area of the EEPROM as shown in Table 1 is initialized.  
When the PROG. PRESET area is initialized, the preset area (for 20 types) that is reserved as spare is initialized.

e) **FIXED PRESET**

Only the FIXED PRESET area of the EEPROM as shown in Table 1 is initialized.  
When the FIXED PRESET area is initialized, the basic preset area is initialized to the built-in standard value that is stored in the system controller.

f) **LAST MEMORY**

Only the LAST MEMORY area of the EEPROM as shown in Table 1 is initialized.  
When the LAST MEMORY area is initialized, only the last memory data of every signal that is adjusted by user is initialized.

g) **USER MEMORY**

Only the USER MEMORY area of the EEPROM as shown in Table 1 is initialized.  
When the USER MEMORY area is initialized, all of the 20 types of adjustment data that is saved by the MEMORY function of the user menu are initialized to EMPTY.

h) **FACTORY**

Only the FACTORY area of the EEPROM as shown in Table 1 is initialized.  
When the FACTORY area is initialized, all areas of the MEMORY except the areas that are listed below are initialized.

Items that are not initialized by the “FACTORY” RESET function.

- EEPROM ID CODE
- INDEX NUMBER
- MODEL NAME
- SERIAL NUMBER
- AUDIO DIGITAL
- DIGITAL TYPE
- YUV2 TYPE
- AUTO PLL SETUP
- AUTO PLL PIXEL
- H/V SHIFT
- VIDEO SHARP SW
- AUTO FT CANCEL
- WATCH ERROR
- Y GAIN
- R-Y GAIN
- B-Y GAIN
- R CUTOFF
- B CUTOFF
- ADC R GAIN
- ADC G GAIN
- ADC B GAIN
- ADC R OFFSET
- ADC G OFFSET
- ADC B OFFSET

## 2. WHITE BALANCE

### Menu Structure

Adjust the white balance of the desired color temperature by selecting the items of the WHITE BALANCE menu and by adjusting the R, G, B gain of the digital gamma circuit.

```
WHITE BALANCE
▶ WINDOW : OFF
 COLOR TEMP : HIGH
 RED GAIN : 255
 GREEN GAIN : 255
 BLUE GAIN : 255
```

#### a) WINDOW

The PFM-500A3W/510A2W has the built-in window signal for white balance adjustment. There are two sizes that are the large and small windows. Select the optimum size of window for white balance adjustment.

OFF : Window does not appear.

TYPE1 : Small window

TYPE2 : Large widow

Note : When white balance is going to be adjusted using an external signal, perform the A/D converter calibration (referring to the next paragraph 3) ADC CALIBRATION) before starting the white balance adjustment.

#### b) COLOR TEMP

To adjust the white balance, firstly select the desired color temperature from HIGH, LOW, 1, 2, 3, 4, 5 or 6 on the COLOR TEMP sub-menu. Color temperature of items 1 to 6 are the same as those of the user menu.

#### c) RED GAIN

Adjust the red gain of the selected color temperature. The range of adjustment is from 010 to 255.

#### d) GREEN GAIN

Adjust the green gain of the selected color temperature.

The range of adjustment is from 010 to 255.

#### e) BLUE GAIN

Adjust the red blue of the selected color temperature. The range of adjustment is from 010 to 255.

### White Balance Adjustment

Refer to section “3-3. White Balance Adjustment”.

## 3. ADC CALIBRATION

### Menu Structure

Calibrate the A/D converter (IC200) until non-uniformity between the R, G and B channels of the A/D converter is removed.

```
ADC CALIBRATION
▶ AUTO : OFF
 CAL MODE : 128
 RED GAIN : 128
 GREEN GAIN : 128
 BLUE GAIN : 128
 RED BIAS : 128
 GREEN BIAS : 128
 BLUE BIAS : 128

R : --- G : --- B : ---
```

#### a) AUTO

The A/D converter is automatically calibrated.

Note : When sufficient adjustment accuracy cannot be obtained by the automatic calibration, perform basically the manual calibration using the following ADC CALIBRATION menu items.

#### b) CAL MODE

The A/D converter has the calibration mode as its operating mode as follows.

\* The A/D converter has the R, G, B GAIN adjustments and the R, G, B BIAS adjustments. The GAIN adjustments of the A/D converter are used for CONTRAST adjustment in the machine. The R, G, B BIAS adjustments of the A/D converter are used for BRIGHTNESS adjustment in the machine.

CAL MODE - OFF : Standard display state

The R, G, B GAIN values and the R, G, B BIAS values are controlled by the CONTRAST/BRIGHT data of the user menu. The R, G, B GAIN values and the R, G, B BIAS values of this menu cannot be adjusted independently.

CAL MODE - OFF : Calibration mode

The R, G, B GAIN values and the R, G, B BIAS values of this menu can be adjusted independently. The R, G, B data that appear in the most-bottom part of the menu in cyan, change from the indication “---” to the indication of any digital output data of the A/D converter.

#### c) RED GAIN/GREEN GAIN/BLUE GAIN

The respective R, G, B GAIN values can be adjusted independently.

The range of adjustment is from 000 to 255.

#### d) RED BIAS/GREEN BIAS/BLUE BIAS

The respective R, G, B BIAS values can be adjusted independently.

The range of adjustment is from 000 to 255.

### A/D Calibration Adjustment

Refer to section “3-4. A/D Calibration Adjustment”.

## 4. VIDEO PROCESSOR

### Menu Structure

The following items of the video processor can be adjusted using this menu. However, all items of the video processor have the default values on which normal operations are performed. Therefore, the video processor normally needs no adjustment.

```
VIDEO PROCESSOR
▶ Y GAIN : 111
 R-Y GAIN : 082
 B-Y GAIN : 128
 RED CUTOFF : 143
 BLUE CUTOFF : 100
```

- a) Y GAIN  
The range of adjustment is from 000 to 255.  
Default value : 111
- b) R-Y GAIN  
The range of adjustment is from 000 to 255.  
Default value : 082
- c) B-Y GAIN  
The range of adjustment is from 000 to 255.  
Default value : 128
- d) RED CUTOFF  
The range of adjustment is from 000 to 255.  
Default value : 143
- e) BLUE CUTOFF  
The range of adjustment is from 000 to 255.  
Default value : 100

### Video Processor Adjustment

Refer to section “3-5. Video Processor Adjustment”.  
(Perform the service menu adjustment of the video processor only when the specifications cannot be satisfied by section “3-5. Video Processor Adjustment”).)

## 5. SPECIAL FUNCTION

### Menu Structure

Various special functions as listed in the SPECIAL FUNCTION menu can be independently set as required.

```
SPECIAL FUNCTION
▶ AUTO DIGITAL
 DIGITAL TYPE
 RGB2 TYPE
 AUTO PLL SETUP
 AUTO PLL PIXEL
 H/V SHIFT
 VIDEO SHARP SW
 AUTO FT CANCEL
```

- a) AUTO DIGITAL  
Sets enable/disable of automatic switching of the DIGITAL IN terminal.  
The PFM-500A3W/510A2W is equipped with the DIGITAL IN terminal (CN2: Pins A21 to A32/B21 to B32) using the LVDS. The automatic switching of the DIGITAL IN terminal can be enabled/disabled as follows by the setup of the AUTO DIGITAL item of this menu.  
ON : When the AUTO DIGITAL is set to ON, connect pin-A20 to GND to switch the DIGITAL IN terminal to the digital input. Disconnect pin-A20 to open to switch the DIGITAL IN terminal to the input state before the terminal is switched to digital.  
OFF : When the AUTO DIGITAL is set to ON, the automatic switching of the DIGITAL IN terminal is disabled.  
Set the AUTO DIGITAL item to the ON position normally.
- b) DIGITAL TYPE  
Selects either RGB signal or the YUV signal as the input signal to the DIGITAL IN terminal.  
RGB : The RGB signal is selected as the input signal to the DIGITAL IN terminal.  
YUV : The YUV signal is selected as the input signal to the DIGITAL IN terminal.  
Set the DIGITAL TYPE item to the RGB position normally.
- c) RGB2 TYPE  
Selects either RGB signal or the YUV signal as the input signal to the RGB2 terminal.  
RGB : The RGB signal is selected as the input signal to the RGB2 terminal.  
YUV : The YUV signal is selected as the input signal to the RGB2 terminal.  
Set the RGB2 item to the RGB position normally.

d) **AUTO PLL SETUP**

Sets enable/disable of automatic execution of the PIXEL ADJUST function.

**ON** : When the AUTO PLL SETUP is set to ON, the PIXEL ADJUST is automatically executed when the main power is turned on or when the input signal is switched. (Be noted that about 10 seconds are required to output the video signal after switching the input signal when this function is kept to the ON position.)

**OFF** : The automatic PIXEL ADJUST is executed only when AUTO item of the user menu PIXEL ADJUST is activated.

This function becomes valid only when the signal that enables the PIXEL ADJUST is inputted to the PFM-500A3W/510A2W.

Set the AUTO PLL SETUP item to the OFF position normally.

e) **AUTO PLL PIXEL**

Selects the functions that are automatically adjusted when PIXEL ADJUST is executed.

**ON** : Both the TOTAL H PIXEL and DOT PHASE are automatically adjusted.

**OFF** : Only the DOT PHASE is automatically adjusted.

In the case that the PFM-500A3W/510A2W is used under the environment where input signal contains much noise, there are cases that the PIXEL ADJUST mis-operations. Therefore, set the AUTO PLL PIXEL to the OFF position. In such a case, the TOTAL H PIXEL can be adjusted only manually.

This function becomes valid only when the signal that enables the PIXEL ADJUST is inputted to the PFM-500A3W/510A2W.

Set the AUTO PLL PIXEL item to the ON position normally.

f) **H/V SHIFT**

Selects the method to control the horizontal and vertical picture shift.

**EDGE** : When EDGE is selected, a picture is shifted by changing the starting position when reading data into memory. Using this function, the entire area including blanking of all pictures can be displayed by shifting. The variable range of shifting is 1 horizontal and vertical period respectively.

**CAPT** : When CAPT is selected, the picture that is already written into memory is shifted by a scan converter. Using this function, a picture can be shifted as much as  $\pm 50\%$  of a picture. When a picture is partly lacked at an end of a picture, the lacked portion of a picture cannot be displayed.

Set the H/V SHIFT item to the EDGE position normally.

g) **VIDEO SHARP SW**

Sets analog aperture ON or OFF.

The two methods are used for the aperture correction of the video signals (NTSC/PAL/SECAM/NTSC4.43/PAL60 and YUV signal having horizontal frequency of 15 kHz). These two methods are the scaling filter and the analog aperture of the scan converter.

**ON** : Both the scaling filter and the analog aperture of the scan converter are used for aperture correction.

**OFF** : Only the scaling of the scan converter is used for aperture correction.

This function becomes valid only when the signal (NTSC/PAL/SECAM/NTSC4.43/PAL60 and YUV signal having horizontal frequency of 15 kHz) is inputted to the PFM-500A3W/510A2W.

Set the VIDEO SHARP SW item to the ON position normally.

h) **AUTO FT CANCEL**

Sets the FT (field tearing) cancel circuit ON or OFF.

The PFM-500A3W/510A2W has the FT (field tearing) prevention circuit caused by the overrun of memory while it is displaying the moving picture (video and DTV). However, there can be cases that noise appears on screen when the FT (field tearing) prevention is being executed.

**ON** : The FT (field tearing) is cancelled in every picture size and in every shift conditions as long as the PFM-500A3W/510A2W is receiving the moving picture. When this item is set to ON, noise may appear only once after the size/shift is adjusted. (Noise does not last long but appears only once when the size/shift adjustment is complete.)

**OFF** : The FT (field tearing) cancel circuit is disabled. When OFF is selected, there can be a case that the FT (field tearing) appears on screen depending on the adjustment conditions of picture size/shift. However, the noise due to operation of the processing circuit does not occur.

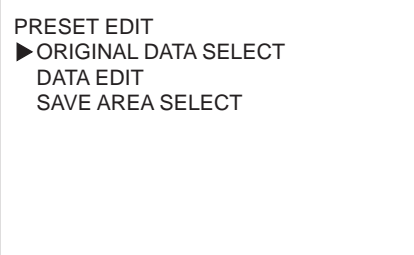
Set the AUTO FT CANCEL item to the ON position normally.

6. PRESET EDIT

Preset Data Configuration

Memory map of the preset data area is shown in Table 1 (PROG. PRESET/FIXED PRESET). The areas from 1 to 20 are assigned to store the additional signal. The areas from 21 to 74 are assigned to store the internal signal.

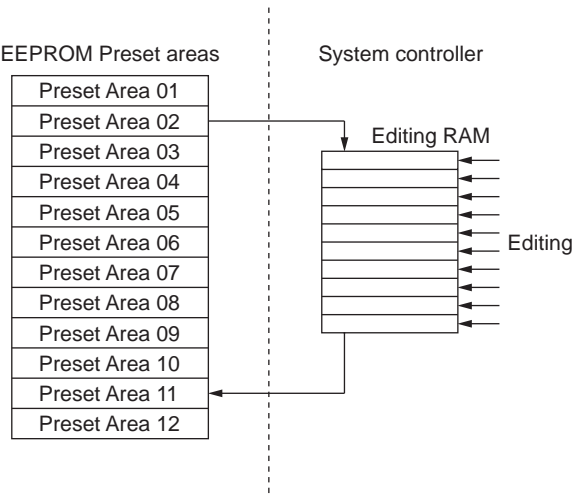
Menu Structure



How To Edit The Preset Data

As shown in the illustration, the system controller contains the memory area (i.e., Editing RAM) that is assigned only for data editing. The source data that is used for editing must be firstly copied to the Editing RAM. Edit then the copied data as desired. Finally save the result of editing in the specified preset area of the EEPROM.

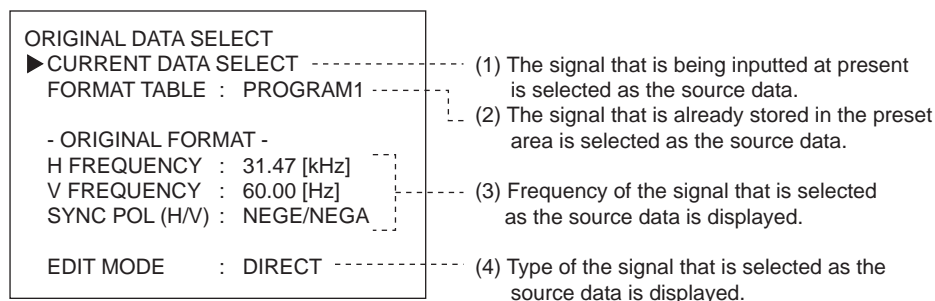
(The illustration shows an example that the data in the preset area No. 02 is once copied to the Editing RAM where data is edited. The edited data is sent back to the preset area No. 11 where the edited data is saved.)



## a) ORIGINAL DATA SELECT

### Menu Structure

Select the source data that is used for editing. Then the selected source data is copied to the Editing RAM.



#### (1) CURRENT DATA SELECT

When an editing is performed using the signal that is being inputted at present is selected as the source data, move the cursor to this item and press ENTER. The selected data is copied to the Editing RAM.

#### (2) FORMAT TABLE : PROGRAM 1

When an editing is performed using the signal that is already stored in the preset area is selected as the source data, move the cursor to this item and press ENTER. Select the desired area from Table 1 by pressing the +/- keys. The selected data is copied to the Editing RAM.

#### (3) - ORIGINAL FORMAT -

Frequency of the signal that is selected as the source data in step (1) or (2) is displayed.

Use the frequency data as the fundamental information when selecting a source data.

#### (4) EDIT MODE

When the signal that is being inputted at present is selected as the source data, the message DIRECT appears. When the signal that is already stored in the preset area is selected as the source data, the message TABLE appears.

Note : The editing items that can be editing here are different in the DIRECT mode and the TABLE mode. Refer to the next sub-section "b) DATA EDIT" for the editing items.

#### < When DIRECT mode is used for editing >

... The DIRECT mode is used when editing is performed while watching the picture on screen in the case that the specifications of the signal are not known. ... When DIRECT mode is selected, select the desired adjustment item referring to the next sub-section "b) DATA EDIT" by pressing the +/- keys. Press the ENTER key. Then the result of data adjustment is reflected on the display screen. (Pressing the MENU key returns to the previous menu display.) However, the three adjustment items H FREQUENCY, V FREQUENCY and SYNC POL cannot be changed by the menu operation.

#### < When TABLE mode is used for editing >

... The TABLE mode is used when the specifications of the signal to edit are already known. ... All adjustment items adjusted by the menu but result of adjustment is not reflected on the actual picture. Data can be edited only.

## b) DATA EDIT

### Menu Structure

The following items of the source data that is copied to the Editing RAM can be modified as described below.

|                 |               |                                                    |
|-----------------|---------------|----------------------------------------------------|
| DATA EDIT       |               |                                                    |
| ▶ INPUT SELECT  | : 1100000     | ----- (1) Acceptable type of input signal          |
| H FREQUENCY     | : 31.47 [kHz] | ----- (2) Horizontal frequency                     |
| V FREQUENCY     | : 60.00 [Hz]  | ----- (3) Vertical frequency                       |
| SYNC POL (H/V)  | : NEGA/NEGA   | ----- (4) Sync signal polarity                     |
| TOTAL H PIXEL   | : 800         | ----- (5) Total number of horizontal dots          |
| LEFT EDGE       | : 140         | ----- (6) Horizontal dot position to start reading |
| H RESOLUTION    | : 640         | ----- (7) Horizontal resolution (Number of dots)   |
| TOP EDGE        | : 35          | ----- (8) Vertical dot position to start reading   |
| V RESOLUTION    | : 480         | ----- (9) Vertical resolution (Number of dots)     |
| DOT PHASE       | : 128         | ----- (10) Dot phase                               |
| CP PLACEMENT    | : 005         | ----- (11) Clamp pulse width (Number of dots)      |
| CP DURATION     | : 016         | ----- (12) Clamp pulse position (Number of dots)   |
| INTERLACE MODE  | : OFF         | ----- (13) Interlace setting                       |
| FILED MODE      | : OFF         | ----- (14) In-field processing setting             |
| FRAMELOCK MODE  | : OFF         | ----- (15) Vertical sync setting                   |
| MATRIX SELECT   | : ITU709      | ----- (16) Color difference matrix setting         |
| PICTURE AGC     | : ON          | ----- (17) Automatic brightness adjustment setting |
| ASPECT          | : 4 × 3       | ----- (18) Aspect ratio setting                    |
| ZOOM            | : × 1         | ----- (19) Zoom setting                            |
| APERTURE INIT   | : MID         | ----- (20) Aperture initial value setting          |
| APERTURE HIGH   | : 000         | ----- (21) Aperture data setting                   |
| APERTURE MID    | : 002         | ----- (22) Aperture data setting                   |
| APERTURE LOW    | : 004         | ----- (23) Aperture data setting                   |
| AUTO PLL        | : ON          | ----- (24) Automatic PIXEL ADJUST setting          |
| SYNC WIDTH (μs) | : 003.81      | ----- (25) Horizontal sync signal width            |

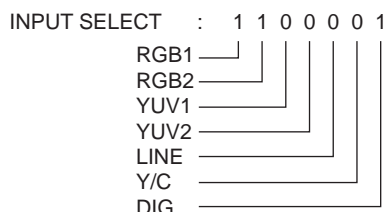
Note : A maximum of 8 lines of the above menu can be displayed on screen. The other menu items can be displayed by scrolling the display by moving the cursor up or down.



(1) INPUT SELECT

The input signals that are acceptable to the PFM-500A3W/510A2W are set.

This item consists of 8 bits. Each bit corresponds to each type of input signal. Only the input channel to which “1” is set, can be received by the PFM-500A3W/510A2W.



Note : Regarding the LINE and Y/C input channels, these signals having horizontal frequency of 15 kHz can be inputted. Because these input signals pass through the double-speed processing circuit in the PFM-500A3W/510A2W circuit configuration, do not use the LINE and Y/C input channels.

(2) H FREQUENCY

The horizontal frequency is set.

Note: This menu item cannot be modified in the DIRECT mode because the DIRECT mode can edit the signal that is being inputted at present.

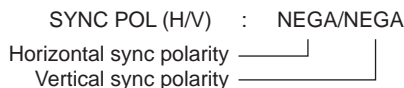
(3) V FREQUENCY

The vertical frequency is set.

Note : This menu item cannot be modified in the DIRECT mode because the DIRECT mode can edit the signal that is being inputted at present.

(4) SYNC POL (H/V)

Polarity of sync signal is set.



To set the polarity, select as follows:

Negative polarity : NEGA  
Positive polarity : POSI  
SOG : ---

Note : This menu item cannot be modified in the DIRECT mode because the DIRECT mode can edit the signal that is being inputted at present.

(5) TOTAL H PIXEL

The total number of dots in a horizontal period is set.  
The number of dots that is set here becomes the initial value of the user menu “TOTAL H PIXEL”.

Note : Set the total number of dots to satisfy the following conditions.  
 $\text{TOTAL H PIXEL} \geq [\text{LEFT EDGE} + \text{H RESOLUTION}]$

(6) LEFT EDGE

The horizontal sync width (in dots) + horizontal back porch width (in dots) are set.

(7) H RESOLUTION

Horizontal resolution power is set.

Note : When 1280 or more is set to the horizontal resolution, picture may not be displayed normally on screen. When a signal that has the higher resolution than the SXGA signal, is going to be preset, reduce the number of horizontal resolution by skipping or any other means down to 1280 or less.

(8) TOP EDGE

The vertical sync width (in lines) + vertical back porch width (in lines) are set.

Note : Set the TOP EDGE value to satisfy the following conditions.  
 $[\text{TOP EDGE} + \text{V RESOLUTION}] \leq [\text{horizontal frequency} + \text{vertical frequency}]$

(9) V RESOLUTION

The vertical resolution is set.

Note : Set the V RESOLUTION value to satisfy the following conditions.  
 $[\text{TOP EDGE} + \text{V RESOLUTION}] \leq [\text{horizontal frequency} + \text{vertical frequency}]$

(10) DOT PHASE

Pulse phase of the horizontal sampling frequency is set.

The pulse phase that is set here becomes the initial value of DOT PHASE of the user menu.

The pulse phase can be set in the range of 000 to 255.

(11) CP PLACEMENT

Clamp pulse position is set.

The clamp pulse position is set starting from the trailing edge of horizontal sync signal (when data is 000). Increasing this value moves the clamp pulse in the direction toward the picture area.

The clamp pulse generating position “Tcp” is given by the following equation starting from the trailing edge of horizontal sync signal.

$$\text{Tcp} = \text{CP PLACEMENT} / [\text{horizontal sync frequency} \times \text{TOTAL H PIXEL}] \text{ (in seconds)}$$

(12) CP DURATION

Clamp pulse width is set.

The clamp pulse width is set starting from the position that is determined by CP PLACEMENT. Increasing this value widens the clamp pulse width in the direction toward the picture area.

The clamp pulse width “Wcp” is given by the following.

$$\text{Wcp} = \text{CP DURATION} / [\text{horizontal sync frequency} \times \text{TOTAL H PIXEL}] \text{ (in seconds)}$$

### (13)INTERLACE MODE

Whether the input signal is interlaced or not is set.

ON : When the input signal is the interlaced signal.

OFF : When the input signal is not the interlaced signal.

### (14)FIELD MODE

Whether the interlaced signal is processed within a field or within a frame, is set.

ON : When the input interlaced signal is processed within a field.

OFF : When the interlaced signal is processed within a frame.

Select the ON position when a signal has a low correlation between the two fields within a frame such as moving picture.

### (15)FRAMELOCK MODE

Whether the PDP display picture is synchronized with the input signal to scan converter or not, is set.

ON : The PDP display picture is synchronized with the input signal.

OFF : The PDP display picture is asynchronous with the input signal.

When moving picture (animation) is going to be displayed, select the ON position.

Note : This item can be set to ON as long as the vertical frequency of the input signal is in the range of 50 to 60 Hz.

### (16)MATRIX SELECT

The color difference matrix when the YUV signal is being input, is set.

### (17)PICTURE AGC

Whether the PICTURE AGC is turned ON or OFF is set.

Result of this setting becomes the initial value of the user menu PICTURE AGC.

This function becomes valid only when the COMPOSITE/YC/YUV signal is being received.

### (18)ASPECT

The desired aspect ratio is selected from the aspect ratios of  $4 \times 3$  or  $16 \times 9$  or W ZOOM. Result of this setting becomes the initial value of the user menu ASPECT.

Note : The W ZOOM can not be selected when the ZOOM is in the range of  $\times 2$  to  $\times 4$ .

### (19)ZOOM

The desired zoom ratio is selected from the zoom ratios of  $\times 1$  or  $\times 2$  or  $\times 3$  or  $\times 4$ . Result of this setting becomes the initial value of the user menu ZOOM.

Note : Any zoom ratios other than  $\times 1$  cannot be selected when the ASPECT is W ZOOM.

### (20)APERTURE INIT

The desired aperture is selected from HIGH or MID or LOW. Result of this setting becomes the initial value of the user menu APERTURE.

### (21)APERTURE HIGH

The scaling filter value when selecting HIGH of the APERTURE, is set. The scaling filter value can be set in the range of 000 to 011. (Refer to the Supplement to APERTURE in the following paragraph.)

### (22)APERTURE MID

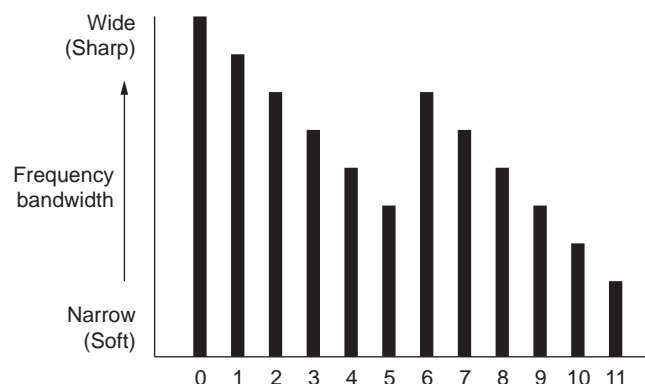
The scaling filter value when selecting MID of the APERTURE, is set. The scaling filter value can be set in the range of 000 to 011. (Refer to the Supplement to APERTURE in the following paragraph.)

### (23)APERTURE LOW

The scaling filter value when selecting LOW of the APERTURE, is set. The scaling filter value can be set in the range of 000 to 011. (Refer to the Supplement to APERTURE in the following paragraph.)

#### < Supplement to APERTURE >

The PFM-500A3W/510A2W has the 12 different types of built-in scaling filter. Select an appropriate filter using the following filter characteristics chart as a guideline.



#### (24) AUTO PLL

Whether the user menu adjustment PIXEL ADJUST is enabled or disabled, is set.

ON : The user menu adjustment PIXEL ADJUST is enabled.

OFF : All items of the adjustment PIXEL ADJUST show the indication [---]. The user menu adjustment PIXEL ADJUST is disabled.

Select the OFF position when the setup of the TOTAL H and that of RESOLUTION do not agree with specifications of the actual input signal.

#### (25) SYND WIDTH (μs)

Sync pulse width of the horizontal sync signal is set in units of microseconds [μseconds].

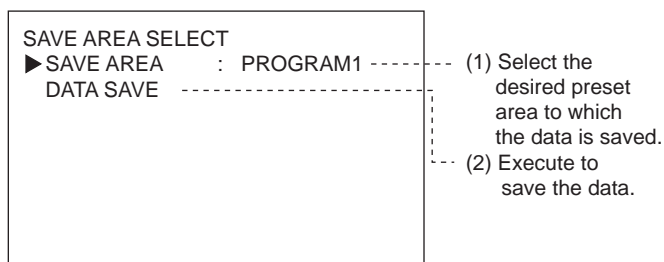
This menu item is prepared for the purpose of stabilization of the sync signal separation circuit. Therefore, accurate setting is not necessarily needed.

If the sync signal width is not known, select "Not set" (source data).

#### c) SAVE AREA SELECT

##### Menu Structure

The data that is copied in the Editing RAM, is saved in the preset area.



#### (1) SAVE AREA SELECT

Select the desired preset area from Table 1 to which the content of the Editing RAM is saved.

#### (2) DATA SAVE

Execute to save the data to the preset area that is selected by the SAVE AREA SELECT. Change the item from CANCEL to EXECUTE. Then press ENTER.

Note : Judgment whether the input signal agrees with the preset data or not, is performed using the horizontal sync frequency, vertical sync frequency and polarity of the sync signals. If the same sync signal already exists in the preset area (Table 1), the specification that has the small preset No., has a higher priority.

## 7. MAINTENANCE

### Menu Structure

The data that is unique to the particular machine of the PFM-500A3W/510A2W and the scan converter can be upgraded using this menu.

```
MAINTENANCE
▶ WATCH ERROR
MODEL NAME
SERIAL No.
SC PROG LOAD
```

#### a) WATCH ERROR

Errors of the built-in watch IC can be corrected.

To correct the error, enter the measurement value of the frequency counter that is connected.

Range of adjustment is from 32761.85 Hz to 32774.25 Hz.

#### b) MODEL NAME

Model name can be set.

#### c) SERIAL No.

Serial number can be set.

#### d) SC PROG LOAD

The built-in program of the scan converter can be modified using this menu item.

Change the item from CANCEL to EXECUTE. Then press ENTER.

### Watch Error Adjustment

Refer to section "3-6. Watch Error Adjustment".

8. STATUS/TEST

Menu Structure

The internal status of the PFM-500A3W/510A2W can be checked and its functions can be checked using the STATUS/TEST menu.

|                  |
|------------------|
| STATUS/TEST      |
| ► SIGNAL/SYNC    |
| POWER SUPPLY     |
| TEMPERATURE      |
| FAN              |
| SOFTWARE VERSION |
| TEST FUNCTION    |

a) SIGNAL/SYNC

|                |                |                              |
|----------------|----------------|------------------------------|
| SIGNAL/SYNC    |                |                              |
| H FREQUENCY    | : 31.47 [kHz]  | Horizontal frequency         |
| V FREQUENCY    | : 60.00 [Hz]   | Vertical frequency           |
| FORMAT         | : 640 × 480/60 | Specifications of the signal |
| SYNC POL (H/V) | : NEGA/NEGA    | Polarity of sync signal      |
| STABLE         |                | Status of sync signal        |
| INSECURE       |                |                              |
| NO SYNC        |                |                              |

Information regarding the sync signal of the input signal is displayed.

- Horizontal frequency : Horizontal frequency of the input signal is displayed in four digits.
- Vertical frequency : Vertical frequency of the input signal is displayed in four digits.
- Specifications of the signal : Names of presets of the preset areas (Table 1) corresponding to input signal are displayed.
- Polarity of sync signal : Polarity of sync signal is displayed.
- Status of sync signal : Status of sync signal is displayed in cyan.
  - STABLE : Sync signal is stable.
  - INSECURE : Sync signal is unstable.
  - NO SYNC : Sync signal does not exist.

b) POWER SUPPLY

|              |           |                                 |
|--------------|-----------|---------------------------------|
| POWER SUPPLY |           |                                 |
| PDP VS (HV)  | : 160 [V] | PDP drive voltage VS            |
| PDP VA (MV)  | : 060 [V] | PDP drive voltage VA            |
| DIGITAL 5V   | : 4.9 [V] | 5 V power for digital circuitry |

The main DC power voltages of the PFM-500A3W/510A2W are displayed.

- PDP drive voltage VS : High voltage power to PDP is displayed.
- PDP drive voltage VA : Medium voltage power to PDP is displayed.
- 5 V power for digital circuitry : Internal 5 V power is displayed.

c) TEMPERATURE

|                  |           |                                                              |
|------------------|-----------|--------------------------------------------------------------|
| TEMPERATURE      |           |                                                              |
| PANEL BACK SIDE  |           | Temperature at the top on the rear of the power supply panel |
| • P/S BLOCK SIDE | : 25 [°C] |                                                              |
| • CENTER         | : 25 [°C] |                                                              |
| • I/O BLOCK SIDE | : 25 [°C] |                                                              |
| P/S INTERNAL     | : OK      | Power supply internal temperature information                |
| AMBIENT TEMP     | : 25 [°C] | Outside ambient temperature                                  |

Internal temperature information of PFM-500A3W/510A2W is displayed.

- Temperature at the top on the rear of the power supply panel : Temperatures under the respective fans on the rear of the power supply panel are displayed as follows.
  - P/S BLOCK SIDE : Temperature of the side of the power supply block.
  - CENTER : Temperature at the center.
  - I/O BLOCK SIDE : Temperature of the I/O terminal block.
- Power supply internal temperature information : Temperature status inside the power supply block is displayed. The message OK appears when temperature is normal. The message NG appears when temperature is abnormal.
- Outside ambient temperature : Temperature in the lower part (H6 board block) on the rear of the PFM-500A3W/510A2W is displayed.

#### d) FAN

|                   |      |                                                      |
|-------------------|------|------------------------------------------------------|
| FAN               |      |                                                      |
| PANEL BACK SIDE   |      |                                                      |
| • I/O BLOCK SIDE  | : OK | Fan at the top on the rear of the power supply panel |
| • CENTER          | : OK |                                                      |
| • P/S BLOCK SIDE  | : OK |                                                      |
| POWER SUPPLY SIDE |      |                                                      |
| • No. 1           | : OK | Power supply internal fan                            |
| • No. 2           | : OK |                                                      |
| DRIVE CIRCUIT     | : OK | Fan drive circuit                                    |

The cooling fan operational information inside the PFM-500A3W/510A2W is displayed. The message OK appears when fan is normal. The message NG appears when fan is abnormal.

Fan at the top on the rear of the power supply panel :  
Operating states of the respective fans on the rear of the power supply panel are displayed as follows.

P/S BLOCK SIDE :

Fan on the side of the power supply block.

CENTER : Fan in the center.

I/O BLOCK SIDE : Fan in the I/O terminal block.

Power supply internal fan :

Operating state of the fan inside the power supply block is displayed.

Fan drive circuit :

Operating state of the fan control circuit is displayed.

The message OK appears when fan is normal. The message NG appears when fan is abnormal.

#### e) SOFTWARE VERSION

|                  |             |                   |
|------------------|-------------|-------------------|
| SOFTWARE VERSION |             |                   |
| MAIN CPU         | : Ver. 1.00 | System controller |
| SCAN CONVERTER   | : Ver. 1.00 | Scan converter    |

Version of each software is displayed.

System controller :

Version of the main microprocessor is displayed.

Scan converter :

Version of the scan converter (IC207) is displayed.

#### f) TEST FUNCTION

|               |                                |
|---------------|--------------------------------|
| TEST FUNCTION |                                |
| FAN DRIVE     | ----- Fan operation check only |
| BLUE ONLY     | ----- Blue only                |

This is the test function.

##### • Fan operation check only

|               |            |                            |
|---------------|------------|----------------------------|
| FAN DRIVE     | : AUTO     |                            |
| DRIVE DATA    | : 10783    | ----- Drive register data  |
| DRIVE VOLTAGE | : 08.9 [V] | ----- Actual drive voltage |

When the FAN DRIVE is changed from AUTO to MANUAL, and ENTER is pressed, the DRIVE DATA indication changes to cyan. In this setup, the drive register value can be manually modified. When the drive register value is changed, the pulse width of the PWM signal in the fan voltage control PWM circuit is changed accordingly.

Fans can be checked whether they operate normally or not by comparing the register value and the actual drive voltage, and by comparing the actual drive voltage and the actual operations of the fans.

Variable range of the drive register value :  
00000 to 16383

##### • Blue only

When Blue only is selected, all of the R, G and B colors become the blue data.

**Table 1. EEPROM Configuration**

| Area   | Data Configuration | Standard Value         |
|--------|--------------------|------------------------|
| COMMON | EEPROM ID CODE     | Pass code for model ID |
|        | POWER              | OFF                    |
|        | VOLUME             | 30                     |
|        | DISPLAY            | ON                     |
|        | CLOSED CAPTION     | OFF                    |
|        | COLOR SYSTEM       | AUTO                   |
|        | SCREEN FILL        | CENTER                 |
|        | POWER SAVING       | OFF                    |
|        | ON/OFF TIMER       | OFF                    |
|        | POWER ON TIME      | 0                      |
|        | POWER OFF TIME     | 0                      |
|        | PICTURE INVERSION  | OFF                    |
|        | POWER OFF(INVERT)  | NO                     |
|        | PICTURE ORBITING   | OFF                    |
|        | ORBIT RANGE        | 5dot                   |
|        | ORBIT CYCLE        | 10sec                  |
|        | LANGUAGE           | ENGLISH                |
|        | INDEX NUMBER       | 1                      |
|        | REMOTE MODE        | TV                     |
|        | REMOTE ONLY        | OFF                    |
|        | MODEL NAME         | PFM-510A2W/PFM-500A3W  |
|        | INPUT CHANNEL      | RGB1                   |
|        | OPERATION TIME     | 000000H                |
|        | SERIAL NUMBER      | 2000001                |
|        | AUTO DIGITAL       | ON                     |
|        | DIGITAL TYPE       | RGB                    |
|        | YUV2 TYPE          | RGB                    |
|        | AUTO PLL SETUP     | OFF                    |
|        | AUTO PLL PIXEL     | ON                     |
|        | H/V SHIFT          | EDGE                   |
|        | VIDEO SHARP SW     | ON                     |
|        | AUTO FT CANCEL     | ON                     |
|        | WATCH ERROR        | 32768.05               |
|        | Y GAIN             | 111                    |
|        | R-Y GAIN           | 82                     |
|        | B-Y GAIN           | 128                    |
|        | R CUTOFF           | 148                    |
|        | B CUTOFF           | 100                    |
|        | ADC R GAIN         | 128                    |
|        | ADC G GAIN         | 128                    |
|        | ADC B GAIN         | 128                    |
|        | ADC R OFFSET       | 128                    |
|        | ADC G OFFSET       | 128                    |
|        | ADC B OFFSET       | 128                    |

| Area       | Data Configuration | Standard Value |
|------------|--------------------|----------------|
| COLOR TEMP | RED GAIN (HIGH)    | 255            |
|            | GREEN GAIN (HIGH)  | 255            |
|            | BLUE GAIN (HIGH)   | 255            |
|            | RED GAIN (LOW)     | 255            |
|            | GREEN GAIN (LOW)   | 255            |
|            | BLUE GAIN (LOW)    | 255            |
|            | RED GAIN (USER1)   | 255            |
|            | GREEN GAIN (USER1) | 255            |
|            | BLUE GAIN (USER1)  | 255            |
|            | RED GAIN (USER2)   | 255            |
|            | GREEN GAIN (USER2) | 255            |
|            | BLUE GAIN (USER2)  | 255            |
|            | RED GAIN (USER3)   | 255            |
|            | GREEN GAIN (USER3) | 255            |
|            | BLUE GAIN (USER3)  | 255            |
|            | RED GAIN (USER4)   | 255            |
|            | GREEN GAIN (USER4) | 255            |
|            | BLUE GAIN (USER4)  | 255            |
|            | RED GAIN (USER5)   | 255            |
|            | GREEN GAIN (USER5) | 255            |
|            | BLUE GAIN (USER5)  | 255            |
|            | RED GAIN (USER6)   | 255            |
|            | GREEN GAIN (USER6) | 255            |
|            | BLUE GAIN (USER6)  | 255            |
|            | NAME (HIGH)        | HIGH           |
|            | NAME (LOW)         | LOW            |
|            | NAME (USER1)       | 1              |
|            | NAME (USER2)       | 2              |
|            | NAME (USER3)       | 3              |
|            | NAME (USER4)       | 4              |
|            | NAME (USER5)       | 5              |
|            | NAME (USER6)       | 6              |

| Area   | Data Configuration        | Standard Value |
|--------|---------------------------|----------------|
| PROG.  | PRESET AREA 1 (PROGRAM 1) | EMPTY          |
| PRESET | PRESET AREA 2 (PROGRAM 2) | EMPTY          |
|        | PRESET AREA 3 (PROGRAM 3) | EMPTY          |
|        | PRESET AREA 4 (PROGRAM 4) | EMPTY          |
|        | PRESET AREA 5 (PROGRAM 5) | EMPTY          |
|        | PRESET AREA 6 (PROGRAM 6) | EMPTY          |
|        | PRESET AREA 7 (PROGRAM 7) | EMPTY          |
|        | PRESET AREA 8 (PROGRAM 8) | EMPTY          |
|        | PRESET AREA 9 (PROGRAM 9) | EMPTY          |
|        | PRESET AREA10 (PROGRAM10) | EMPTY          |
|        | PRESET AREA11 (PROGRAM11) | EMPTY          |
|        | PRESET AREA12 (PROGRAM12) | EMPTY          |
|        | PRESET AREA13 (PROGRAM13) | EMPTY          |
|        | PRESET AREA14 (PROGRAM14) | EMPTY          |
|        | PRESET AREA15 (PROGRAM15) | EMPTY          |
|        | PRESET AREA16 (PROGRAM16) | EMPTY          |
|        | PRESET AREA17 (PROGRAM17) | EMPTY          |
|        | PRESET AREA18 (PROGRAM18) | EMPTY          |
|        | PRESET AREA19 (PROGRAM19) | EMPTY          |
|        | PRESET AREA20 (PROGRAM20) | EMPTY          |
| FIXED  | PRESET AREA21             | 640 × 350@70   |
| PRESET | PRESET AREA22             | 640 × 350@85   |
|        | PRESET AREA23             | 640 × 400@85   |
|        | PRESET AREA24             | 640 × 480@60   |
|        | PRESET AREA25             | MAC13          |
|        | PRESET AREA26             | 640 × 480@72   |
|        | PRESET AREA27             | 640 × 480@75   |
|        | PRESET AREA28             | 640 × 480@85   |
|        | PRESET AREA29             | 720 × 400@70   |
|        | PRESET AREA30             | 720 × 400@85   |
|        | PRESET AREA31             | 800 × 600@56   |
|        | PRESET AREA32             | 800 × 600@60   |
|        | PRESET AREA33             | 800 × 600@72   |
|        | PRESET AREA34             | 800 × 600@75   |
|        | PRESET AREA35             | 800 × 600@85   |
|        | PRESET AREA36             | MAC16          |
|        | PRESET AREA37             | 1024 × 768@43  |
|        | PRESET AREA38             | 1024 × 768@60  |
|        | PRESET AREA39             | 1024 × 768@70  |
|        | PRESET AREA40             | 1024 × 768@75  |
|        | PRESET AREA41             | 1024 × 768@85  |
|        | PRESET AREA42             | 1152 × 864@75  |
|        | PRESET AREA43             | MAC21          |
|        | PRESET AREA44             | 1280 × 960@60  |
|        | PRESET AREA45             | 1280 × 960@85  |

|  |               |                              |
|--|---------------|------------------------------|
|  | PRESET AREA46 | 1280 × 1024@60               |
|  | PRESET AREA47 | 1280 × 1024@75               |
|  | PRESET AREA48 | 1280 × 1024@85               |
|  | PRESET AREA49 | 1600 × 1200@60               |
|  | PRESET AREA50 | 625 × 50I                    |
|  | PRESET AREA51 | 525 × 60I                    |
|  | PRESET AREA52 | 575 × 50P                    |
|  | PRESET AREA53 | 480 × 60P                    |
|  | PRESET AREA54 | 1080 × 48I                   |
|  | PRESET AREA55 | 1080 × 50I                   |
|  | PRESET AREA56 | 1080 × 60I                   |
|  | PRESET AREA57 | 1035 × 60I                   |
|  | PRESET AREA58 | 720 × 50P                    |
|  | PRESET AREA59 | 720 × 60P                    |
|  | PRESET AREA60 | 1024 × 1024@60               |
|  | PRESET AREA61 | 852 × 480@60                 |
|  | PRESET AREA62 | 1280 × 768@56                |
|  | PRESET AREA63 | Line Doubler 625 × 50I (YUV) |
|  | PRESET AREA64 | Line Doubler 525 × 60I (YUV) |
|  | PRESET AREA65 | Line Doubler NTSC (LINE)     |
|  | PRESET AREA66 | Line Doubler PAL (LINE)      |
|  | PRESET AREA67 | Line Doubler SECAM (LINE)    |
|  | PRESET AREA68 | Line Doubler 443NT (LINE)    |
|  | PRESET AREA69 | Line Doubler PAL60 (LINE)    |
|  | PRESET AREA70 | Line Doubler NTSC (Y/C)      |
|  | PRESET AREA71 | Line Doubler PAL (Y/C)       |
|  | PRESET AREA72 | Line Doubler SECAM (Y/C)     |
|  | PRESET AREA73 | Line Doubler 443NT (Y/C)     |
|  | PRESET AREA74 | Line Doubler PAL60 (Y/C)     |

| Area           | Data Configuration        | Standard Value |
|----------------|---------------------------|----------------|
| LAST<br>MEMORY | PRESET AREA 1 (PROGRAM 1) | EMPTY          |
|                | PRESET AREA 2 (PROGRAM 2) | EMPTY          |
|                | PRESET AREA 3 (PROGRAM 3) | EMPTY          |
|                | PRESET AREA 4 (PROGRAM 4) | EMPTY          |
|                | PRESET AREA 5 (PROGRAM 5) | EMPTY          |
|                | PRESET AREA 6 (PROGRAM 6) | EMPTY          |
|                | PRESET AREA 7 (PROGRAM 7) | EMPTY          |
|                | PRESET AREA 8 (PROGRAM 8) | EMPTY          |
|                | PRESET AREA 9 (PROGRAM 9) | EMPTY          |
|                | PRESET AREA10 (PROGRAM10) | EMPTY          |
|                | PRESET AREA11 (PROGRAM11) | EMPTY          |
|                | PRESET AREA12 (PROGRAM12) | EMPTY          |
|                | PRESET AREA13 (PROGRAM13) | EMPTY          |
|                | PRESET AREA14 (PROGRAM14) | EMPTY          |
|                | PRESET AREA15 (PROGRAM15) | EMPTY          |
|                | PRESET AREA16 (PROGRAM16) | EMPTY          |
|                | PRESET AREA17 (PROGRAM17) | EMPTY          |
|                | PRESET AREA18 (PROGRAM18) | EMPTY          |
|                | PRESET AREA19 (PROGRAM19) | EMPTY          |
|                | PRESET AREA20 (PROGRAM20) | EMPTY          |
|                | PRESET AREA21             | EMPTY          |
|                | PRESET AREA22             | EMPTY          |
|                | PRESET AREA23             | EMPTY          |
|                | PRESET AREA24             | EMPTY          |
|                | PRESET AREA25             | EMPTY          |
|                | PRESET AREA26             | EMPTY          |
|                | PRESET AREA27             | EMPTY          |
|                | PRESET AREA28             | EMPTY          |
|                | PRESET AREA29             | EMPTY          |
|                | PRESET AREA30             | EMPTY          |
|                | PRESET AREA31             | EMPTY          |
|                | PRESET AREA32             | EMPTY          |
|                | PRESET AREA33             | EMPTY          |
|                | PRESET AREA34             | EMPTY          |
|                | PRESET AREA35             | EMPTY          |
|                | PRESET AREA36             | EMPTY          |
|                | PRESET AREA37             | EMPTY          |
|                | PRESET AREA38             | EMPTY          |
|                | PRESET AREA39             | EMPTY          |
|                | PRESET AREA40             | EMPTY          |
|                | PRESET AREA41             | EMPTY          |
|                | PRESET AREA42             | EMPTY          |
|                | PRESET AREA43             | EMPTY          |
|                | PRESET AREA44             | EMPTY          |
|                | PRESET AREA45             | EMPTY          |

|  |               |       |
|--|---------------|-------|
|  | PRESET AREA46 | EMPTY |
|  | PRESET AREA47 | EMPTY |
|  | PRESET AREA48 | EMPTY |
|  | PRESET AREA49 | EMPTY |
|  | PRESET AREA50 | EMPTY |
|  | PRESET AREA51 | EMPTY |
|  | PRESET AREA52 | EMPTY |
|  | PRESET AREA53 | EMPTY |
|  | PRESET AREA54 | EMPTY |
|  | PRESET AREA55 | EMPTY |
|  | PRESET AREA56 | EMPTY |
|  | PRESET AREA57 | EMPTY |
|  | PRESET AREA58 | EMPTY |
|  | PRESET AREA59 | EMPTY |
|  | PRESET AREA60 | EMPTY |
|  | PRESET AREA61 | EMPTY |
|  | PRESET AREA62 | EMPTY |
|  | PRESET AREA63 | EMPTY |
|  | PRESET AREA64 | EMPTY |
|  | PRESET AREA65 | EMPTY |
|  | PRESET AREA66 | EMPTY |
|  | PRESET AREA67 | EMPTY |
|  | PRESET AREA68 | EMPTY |
|  | PRESET AREA69 | EMPTY |
|  | PRESET AREA70 | EMPTY |
|  | PRESET AREA71 | EMPTY |
|  | PRESET AREA72 | EMPTY |
|  | PRESET AREA73 | EMPTY |
|  | PRESET AREA74 | EMPTY |



| Area   | Data Configuration | Standard Value |
|--------|--------------------|----------------|
| USER   | MEMORY No.1        | EMPTY          |
|        | MEMORY No.2        | EMPTY          |
| MEMORY | MEMORY No.3        | EMPTY          |
|        | MEMORY No.4        | EMPTY          |
|        | MEMORY No.5        | EMPTY          |
|        | MEMORY No.6        | EMPTY          |
|        | MEMORY No.7        | EMPTY          |
|        | MEMORY No.8        | EMPTY          |
|        | MEMORY No.9        | EMPTY          |
|        | MEMORY No.10       | EMPTY          |
|        | MEMORY No.11       | EMPTY          |
|        | MEMORY No.12       | EMPTY          |
|        | MEMORY No.13       | EMPTY          |
|        | MEMORY No.14       | EMPTY          |
|        | MEMORY No.15       | EMPTY          |
|        | MEMORY No.16       | EMPTY          |
|        | MEMORY No.17       | EMPTY          |
|        | MEMORY No.18       | EMPTY          |
|        | MEMORY No.19       | EMPTY          |
|        | MEMORY No.20       | EMPTY          |
|        | NAME (No.1)        | • • • • •      |
|        | NAME (No.2)        | • • • • •      |
|        | NAME (No.3)        | • • • • •      |
|        | NAME (No.4)        | • • • • •      |
|        | NAME (No.5)        | • • • • •      |
|        | NAME (No.6)        | • • • • •      |
|        | NAME (No.7)        | • • • • •      |
|        | NAME (No.8)        | • • • • •      |
|        | NAME (No.9)        | • • • • •      |
|        | NAME (No.10)       | • • • • •      |
|        | NAME (No.11)       | • • • • •      |
|        | NAME (No.12)       | • • • • •      |
|        | NAME (No.13)       | • • • • •      |
|        | NAME (No.14)       | • • • • •      |
|        | NAME (No.15)       | • • • • •      |
|        | NAME (No.16)       | • • • • •      |
|        | NAME (No.17)       | • • • • •      |
|        | NAME (No.18)       | • • • • •      |
|        | NAME (No.19)       | • • • • •      |
|        | NAME (No.20)       | • • • • •      |

**Table 2. Factory Preset Data**

|               |       |             |             |       |        |                |                |                |
|---------------|-------|-------------|-------------|-------|--------|----------------|----------------|----------------|
| AREA          | 21    | 22          | 23          | 24    | 25     | 26             | 27             | 28             |
| NAME          | VGA-1 | VESA640x350 | VESA640x400 | VGA   | Mac13" | VESA640x480@72 | VESA640x480@75 | VESA640x480@85 |
| ASPECT        | 4 × 3 | 4 × 3       | 4 × 3       | 4 × 3 | 4 × 3  | 4 × 3          | 4 × 3          | 4 × 3          |
| SHARPNES      | MID   | MID         | MID         | MID   | MID    | MID            | MID            | MID            |
| TOTAL H PIXEL | 800   | 832         | 832         | 800   | 864    | 832            | 840            | 832            |

|               |            |                |                |                |                |                |                |        |
|---------------|------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|
| AREA          | 29         | 30             | 31             | 32             | 33             | 34             | 35             | 36     |
| NAME          | VGA (TEXT) | VESA720x400@85 | VESA800x600@56 | VESA800x600@60 | VESA800x600@72 | VESA800x600@75 | VESA800x600@85 | Mac16" |
| ASPECT        | 4 × 3      | 4 × 3          | 4 × 3          | 4 × 3          | 4 × 3          | 4 × 3          | 4 × 3          | 4 × 3  |
| SHARPNES      | MID        | MID            | MID            | MID            | MID            | MID            | MID            | MID    |
| TOTAL H PIXEL | 900        | 936            | 1024           | 1056           | 1040           | 1056           | 1048           | 1152   |

|               |                 |                 |                 |                 |                 |        |                 |                 |
|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------|-----------------|-----------------|
| AREA          | 38              | 39              | 40              | 41              | 42              | 43     | 44              | 45              |
| NAME          | VESA1024x768@60 | VESA1024x768@70 | VESA1024x768@75 | VESA1024x768@85 | VESA1152x864@75 | Mac21" | VESA1280x960@60 | VESA1280x960@85 |
| ASPECT        | 4 × 3           | 4 × 3           | 4 × 3           | 4 × 3           | 4 × 3           | 4 × 3  | 4 × 3           | 4 × 3           |
| SHARPNES      | MID             | MID             | MID             | MID             | MID             | MID    | MID             | MID             |
| TOTAL H PIXEL | 1344            | 1328            | 1312            | 1376            | 1600            | 1456   | 1800            | 1728            |

|               |                  |                  |                  |                  |       |       |         |         |
|---------------|------------------|------------------|------------------|------------------|-------|-------|---------|---------|
| AREA          | 46               | 47               | 48               | 49               | 50    | 51    | 52      | 53      |
| NAME          | VESA1280x1024@60 | VESA1280x1024@75 | VESA1280x1024@85 | VESA1600x1200@60 | PAL   | NTSC  | 575/50P | 480/60P |
| ASPECT        | 4 × 3            | 4 × 3            | 4 × 3            | 4 × 3            | 4 × 3 | 4 × 3 | 4 × 3   | 4 × 3   |
| SHARPNES      | MID              | MID              | MID              | MID              | LOW   | LOW   | MID     | MID     |
| TOTAL H PIXEL | 1688             | 1688             | 1728             | 2160             | —     | —     | 1266    | 800     |

|               |          |          |          |         |
|---------------|----------|----------|----------|---------|
| AREA          | 54       | 55       | 56       | 59      |
| NAME          | 1080/48I | 1080/50I | 1080/60I | 720/60P |
| ASPECT        | 16 × 9   | 16 × 9   | 16 × 9   | 16 × 9  |
| SHARPNES      | MID      | MID      | MID      | MID     |
| TOTAL H PIXEL | 1462     | 1410     | 1190     | 1650    |

**Table 3. Preset Timing**

| AREA        | 21        |       | 22          |       | 23          |       | 24        |       | 25        |       | 26             |       | 27             |       | 28             |       |
|-------------|-----------|-------|-------------|-------|-------------|-------|-----------|-------|-----------|-------|----------------|-------|----------------|-------|----------------|-------|
| NAME        | VGA-1     |       | VESA640x350 |       | VESA640x400 |       | VGA       |       | Mac13"    |       | VESA640x480@72 |       | VESA640x480@75 |       | VESA640x480@85 |       |
| RESOLUTION  | 640 × 350 |       | 640 × 350   |       | 640 × 400   |       | 640 × 480 |       | 640 × 480 |       | 640 × 480      |       | 640 × 480      |       | 640 × 480      |       |
| CLOCK       | 25.175    | MHz   | 31.5        | MHz   | 31.5        | MHz   | 25.175    | MHz   | 30.24     | MHz   | 31.5           | MHz   | 31.5           | MHz   | 36             | MHz   |
| HORIZONTAL  |           |       |             |       |             |       |           |       |           |       |                |       |                |       |                |       |
| H.FREQ      | 31.469    | kHz   | 37.861      | kHz   | 37.861      | kHz   | 31.469    | kHz   | 35        | kHz   | 37.861         | kHz   | 37.5           | kHz   | 43.269         | kHz   |
|             | μsec      | dots  | μsec        | dots  | μsec        | dots  | μsec      | dots  | μsec      | dots  | μsec           | dots  | μsec           | dots  | μsec           | dots  |
| H.TOTAL     | 31.77     | 800   | 26.413      | 832   | 26.413      | 832   | 31.778    | 800   | 28.571    | 864   | 26.413         | 832   | 26.667         | 840   | 23.111         | 832   |
| H.BLK       | 6.356     | 160   | 6.09        | 192   | 6.095       | 192   | 6.356     | 160   | 7.407     | 224   | 6.096          | 192   | 6.35           | 200   | 5.334          | 192   |
| H.FP        | 0.318     | 8     | 1.015       | 32    | 1.016       | 32    | 0.636     | 16    | 2.116     | 64    | 0.762          | 24    | 0.508          | 16    | 1.556          | 56    |
| H.SYNC      | 3.813     | 96    | 2.032       | 64    | 2.032       | 64    | 3.813     | 96    | 2.116     | 64    | 1.27           | 40    | 2.032          | 64    | 1.556          | 56    |
| H.BP        | 2.225     | 56    | 3.048       | 96    | 3.048       | 96    | 1.907     | 48    | 3.175     | 96    | 4.064          | 16    | 3.81           | 120   | 2.222          | 80    |
| H.ACTIVE    | 25.422    | 640   | 20.317      | 640   | 20.317      | 640   | 25.422    | 640   | 21.164    | 640   | 20.317         | 640   | 20.317         | 640   | 17.778         | 640   |
| VERTICAL    |           |       |             |       |             |       |           |       |           |       |                |       |                |       |                |       |
| V.FREQ      | 70.086    | Hz    | 85.08       | Hz    | 85.08       | Hz    | 59.94     | Hz    | 66.67     | Hz    | 72.809         | Hz    | 75             | Hz    | 85.008         | Hz    |
|             | msec      | lines | msec        | lines | msec        | lines | msec      | lines | msec      | lines | msec           | lines | msec           | lines | msec           | lines |
| V.TOTAL     | 14.265    | 449   | 11.754      | 445   | 11.754      | 445   | 16.683    | 525   | 15        | 525   | 13.735         | 520   | 13.333         | 500   | 11.764         | 509   |
| V.BLK       | 3.145     | 99    | 2.509       | 95    | 1.189       | 45    | 1.43      | 45    | 1.286     | 45    | 1.055          | 40    | 0.534          | 20    | 0.67           | 29    |
| V.FP        | 0.984     | 31    | 0.845       | 32    | 0.026       | 1     | 0.318     | 10    | 0.086     | 3     | 0.237          | 9     | 0.027          | 1     | 0.023          | 1     |
| V.SYNC      | 0.063     | 2     | 0.079       | 3     | 0.079       | 3     | 0.064     | 2     | 0.086     | 3     | 0.079          | 3     | 0.08           | 3     | 0.069          | 3     |
| V.BP        | 2.097     | 66    | 1.585       | 60    | 1.083       | 41    | 1.049     | 33    | 1.114     | 39    | 0.739          | 28    | 0.427          | 16    | 0.578          | 25    |
| V.ACTIVE    | 11.119    | 350   | 9.243       | 350   | 10.565      | 400   | 15.253    | 480   | 13.714    | 480   | 12.678         | 480   | 12.8           | 480   | 11.093         | 480   |
| SYNC        |           |       |             |       |             |       |           |       |           |       |                |       |                |       |                |       |
| SOG         |           |       |             |       |             |       |           |       | YES       |       |                |       |                |       |                |       |
| EXT(H/V)    | (+/−)     |       | (+/−)       |       | (−/+)       |       | (−/−)     |       | (−/−)     |       | (−/−)          |       | (−/−)          |       | (−/−)          |       |
| EXT(COMP)   |           |       |             |       |             |       |           |       |           |       |                |       |                |       |                |       |
| COMP VIDEO  |           |       |             |       |             |       |           |       |           |       |                |       |                |       |                |       |
| VIDEO LEVEL | 0.714V    |       | 0.714V      |       | 0.714V      |       | 0.714V    |       | 0.714V    |       | 0.714V         |       | 0.714V         |       | 0.714V         |       |
| SYNC LEVEL  | TTL       |       | TTL         |       | TTL         |       | TTL       |       | TTL       |       | TTL            |       | TTL            |       | TTL            |       |

| AREA        | 29        |       | 30             |       | 31             |       | 32             |       | 33             |       | 34             |       | 35             |       | 36        |       |
|-------------|-----------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|-----------|-------|
| NAME        | VGA(TEXT) |       | VESA720x400@85 |       | VESA800x600@56 |       | VESA800x600@60 |       | VESA800x600@72 |       | VESA800x600@75 |       | VESA800x600@85 |       | Mac16"    |       |
| RESOLUTION  | 720 × 400 |       | 720 × 400      |       | 800 × 600      |       | 800 × 600      |       | 800 × 600      |       | 800 × 600      |       | 800 × 600      |       | 832 × 624 |       |
| CLOCK       | 28.332    | MHz   | 35.5           | MHz   | 36             | MHz   | 40             | MHz   | 50             | MHz   | 49.5           | MHz   | 56.25          | MHz   | 57.285    | MHz   |
| HORIZONTAL  |           |       |                |       |                |       |                |       |                |       |                |       |                |       |           |       |
| H.FREQ      | 31.469    | kHz   | 37.927         | kHz   | 35.156         | kHz   | 37.879         | kHz   | 48.077         | kHz   | 46.875         | kHz   | 53.674         | kHz   | 49.727    | kHz   |
|             | μsec      | dots  | μsec           | dots  | μsec           | dots  | μsec           | dots  | μsec           | dots  | μsec           | dots  | μsec           | dots  | μsec      | dots  |
| H.TOTAL     | 31.766    | 900   | 26.366         | 936   | 28.444         | 1024  | 26.4           | 1056  | 20.8           | 1040  | 21.333         | 1056  | 18.631         | 1048  | 20.11     | 1152  |
| H.BLK       | 6.353     | 180   | 6.084          | 216   | 6.223          | 224   | 6.4            | 256   | 4.8            | 240   | 5.171          | 256   | 4.409          | 248   | 5.586     | 320   |
| H.FP        | 0.635     | 18    | 1.014          | 36    | 0.667          | 24    | 1              | 40    | 1.12           | 56    | 0.323          | 16    | 0.569          | 32    | 0.559     | 32    |
| H.SYNC      | 3.812     | 108   | 2.028          | 72    | 2              | 72    | 3.2            | 128   | 2.4            | 120   | 1.616          | 80    | 1.138          | 64    | 1.117     | 64    |
| H.BP        | 1.906     | 54    | 3.042          | 108   | 3.556          | 128   | 2.2            | 88    | 1.28           | 64    | 3.232          | 160   | 2.702          | 152   | 3.91      | 224   |
| H.ACTIVE    | 25.413    | 720   | 20.282         | 720   | 22.222         | 800   | 20             | 800   | 16             | 800   | 16.162         | 800   | 14.222         | 800   | 14.524    | 832   |
| VERTICAL    |           |       |                |       |                |       |                |       |                |       |                |       |                |       |           |       |
| V.FREQ      | 70.111    | Hz    | 85.039         | Hz    | 56.25          | Hz    | 60.317         | Hz    | 72.188         | Hz    | 75             | Hz    | 85.061         | Hz    | 74.553    | Hz    |
|             | msec      | lines | msec           | lines | msec           | lines | msec           | lines | msec           | lines | msec           | lines | msec           | lines | msec      | lines |
| V.TOTAL     | 14.263    | 449   | 11.759         | 446   | 17.778         | 625   | 16.579         | 628   | 13.853         | 666   | 13.333         | 625   | 11.756         | 631   | 13.413    | 667   |
| V.BLK       | 1.557     | 49    | 1.212          | 46    | 0.711          | 25    | 0.739          | 28    | 1.373          | 66    | 0.533          | 25    | 0.578          | 31    | 0.865     | 43    |
| V.FP        | 0.381     | 12    | 0.026          | 1     | 0.028          | 1     | 0.026          | 1     | 0.77           | 37    | 0.021          | 1     | 0.019          | 1     | 0.06      | 3     |
| V.SYNC      | 0.064     | 2     | 0.079          | 3     | 0.057          | 2     | 0.106          | 4     | 0.125          | 6     | 0.064          | 3     | 0.056          | 3     | 0.06      | 3     |
| V.BP        | 1.112     | 35    | 1.107          | 42    | 0.626          | 22    | 0.607          | 23    | 0.478          | 23    | 0.448          | 21    | 0.503          | 27    | 0.744     | 37    |
| V.ACTIVE    | 12.706    | 400   | 10.546         | 400   | 17.067         | 600   | 15.84          | 600   | 12.48          | 600   | 12.8           | 600   | 11.179         | 600   | 12.549    | 624   |
| SYNC        |           |       |                |       |                |       |                |       |                |       |                |       |                |       |           |       |
| SOG         |           |       |                |       |                |       |                |       |                |       |                |       |                |       |           |       |
| EXT(H/V)    | (-/+)     |       | (-/+)          |       | (+/+)          |       | (+/+)          |       | (+/+)          |       | (+/+)          |       | (+/+)          |       | (-/-)     |       |
| EXT(COMP)   |           |       |                |       |                |       |                |       |                |       |                |       |                |       |           |       |
| COMP VIDEO  |           |       |                |       |                |       |                |       |                |       |                |       |                |       |           |       |
| VIDEO LEVEL | 0.714V    |       | 0.714V         |       | 0.714V         |       | 0.714V         |       | 0.714V         |       | 0.714V         |       | 0.714V         |       | 0.714V    |       |
| SYNC LEVEL  | TTL       |       | TTL            |       | TTL            |       | TTL            |       | TTL            |       | TTL            |       | TTL            |       | TTL       |       |

| AREA        | 38              |       | 39              |       | 40              |       | 41              |       | 42              |       | 43         |       | 44              |       | 45              |       |
|-------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|------------|-------|-----------------|-------|-----------------|-------|
| NAME        | VESA1024x768@60 |       | VESA1024x768@70 |       | VESA1024x768@75 |       | VESA1024x768@85 |       | VESA1152x864@75 |       | Mac21"     |       | VESA1280x960@60 |       | VESA1280x960@85 |       |
| RESOLUTION  | 1024 × 768      |       | 1024 × 768      |       | 1024 × 768      |       | 1024 × 768      |       | 1152 × 864      |       | 1152 × 870 |       | 1280 × 960      |       | 1280 × 960      |       |
| CLOCK       | 65              | MHz   | 75              | MHz   | 78.75           | MHz   | 94.5            | MHz   | 108             | MHz   | 100        | MHz   | 108             | MHz   | 148.5           | MHz   |
| HORIZONTAL  |                 |       |                 |       |                 |       |                 |       |                 |       |            |       |                 |       |                 |       |
| H.FREQ      | 48.363          | kHz   | 56.476          | kHz   | 60.023          | kHz   | 68.677          | kHz   | 67.5            | kHz   | 68.681     | kHz   | 60              | kHz   | 85.938          | kHz   |
|             | μsec            | dots  | μsec            | dots  | μsec            | dots  | μsec            | dots  | μsec            | dots  | μsec       | dots  | μsec            | dots  | μsec            | dots  |
| H.TOTAL     | 20.677          | 1344  | 17.707          | 1328  | 16.66           | 1312  | 14.561          | 1376  | 14.815          | 1600  | 14.56      | 1456  | 16.667          | 1800  | 11.636          | 1728  |
| H.BLK       | 4.923           | 320   | 4.053           | 304   | 3.657           | 288   | 3.725           | 352   | 4.148           | 448   | 3.04       | 304   | 4.815           | 520   | 3.016           | 448   |
| H.FP        | 0.369           | 24    | 0.32            | 24    | 0.203           | 16    | 0.508           | 48    | 0.593           | 64    | 0.32       | 32    | 0.889           | 96    | 0.431           | 64    |
| H.SYNC      | 2.092           | 136   | 1.813           | 136   | 1.219           | 96    | 1.016           | 96    | 1.185           | 128   | 1.28       | 128   | 1.037           | 112   | 1.077           | 160   |
| H.BP        | 2.462           | 160   | 1.92            | 144   | 2.235           | 176   | 2.201           | 208   | 2.37            | 256   | 1.44       | 144   | 2.889           | 312   | 1.508           | 224   |
| H.ACTIVE    | 15.754          | 1024  | 13.653          | 1024  | 13.003          | 1024  | 10.836          | 1024  | 10.667          | 1152  | 11.52      | 1152  | 11.852          | 1280  | 8.62            | 1280  |
| VERTICAL    |                 |       |                 |       |                 |       |                 |       |                 |       |            |       |                 |       |                 |       |
| V.FREQ      | 60.004          | Hz    | 70.069          | Hz    | 75.029          | Hz    | 84.997          | Hz    | 75              | Hz    | 75.061     | Hz    | 60              | Hz    | 85.002          | Hz    |
|             | msec            | lines | msec            | lines | msec            | lines | msec            | lines | msec            | lines | msec       | lines | msec            | lines | msec            | lines |
| V.TOTAL     | 16.666          | 806   | 14.272          | 806   | 13.328          | 800   | 11.765          | 808   | 13.333          | 900   | 13.323     | 915   | 16.667          | 1000  | 11.764          | 1011  |
| V.BLK       | 0.786           | 38    | 0.672           | 38    | 0.533           | 32    | 0.583           | 40    | 0.533           | 36    | 0.655      | 45    | 0.667           | 40    | 0.594           | 51    |
| V.FP        | 0.062           | 3     | 0.053           | 3     | 0.017           | 1     | 0.015           | 1     | 0.015           | 1     | 0.044      | 3     | 0.017           | 1     | 0.012           | 1     |
| V.SYNC      | 0.124           | 6     | 0.106           | 6     | 0.05            | 3     | 0.044           | 3     | 0.044           | 3     | 0.044      | 3     | 0.05            | 3     | 0.035           | 3     |
| V.BP        | 0.6             | 29    | 0.513           | 29    | 0.466           | 28    | 0.524           | 36    | 0.474           | 32    | 0.568      | 39    | 0.6             | 36    | 0.547           | 47    |
| V.ACTIVE    | 15.88           | 768   | 13.599          | 768   | 12.795          | 768   | 11.183          | 768   | 12.8            | 864   | 12.67      | 870   | 16              | 960   | 11.171          | 960   |
| SYNC        |                 |       |                 |       |                 |       |                 |       |                 |       |            |       |                 |       |                 |       |
| SOG         |                 |       |                 |       |                 |       |                 |       |                 |       |            |       |                 |       |                 |       |
| EXT(H/V)    | (-/-)           |       | (-/-)           |       | (+/+)           |       | (+/+)           |       | (+/+)           |       | (-/-)      |       | (+/+)           |       | (+/+)           |       |
| EXT(COMP)   |                 |       |                 |       |                 |       |                 |       |                 |       |            |       |                 |       |                 |       |
| COMP VIDEO  |                 |       |                 |       |                 |       |                 |       |                 |       |            |       |                 |       |                 |       |
| VIDEO LEVEL | 0.714V          |       | 0.714V          |       | 0.714V          |       | 0.714V          |       | 0.714V          |       | 0.714V     |       | 0.714V          |       | 0.714V          |       |
| SYNC LEVEL  | TTL             |       | TTL             |       | TTL             |       | TTL             |       | TTL             |       | TTL        |       | TTL             |       | TTL             |       |

| AREA        | 46               |       | 47               |       | 48               |       | 49               |       | 50        |       | 51        |       |
|-------------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|-----------|-------|-----------|-------|
| NAME        | VESA1280x1024@60 |       | VESA1280x1024@75 |       | VESA1280x1024@85 |       | VESA1600x1200@60 |       | PAL       |       | NTSC      |       |
| RESOLUTION  | 1280 × 1024      |       | 1280 × 1024      |       | 1280 × 1024      |       | 1600 × 1200      |       | 932 × 573 |       | 753 × 483 |       |
| CLOCK       | 108              | MHz   | 135              | MHz   | 157.5            | MHz   | 162              | MHz   | 17.75     | MHz   | 14.318    | MHz   |
| HORIZONTAL  |                  |       |                  |       |                  |       |                  |       |           |       |           |       |
| H.FREQ      | 63.981           | kHz   | 79.976           | kHz   | 91.146           | kHz   | 75               | kHz   | 15.625    | kHz   | 15.734    | kHz   |
|             | μsec             | dots  | μsec             | dots  | μsec             | dots  | μsec             | dots  | μsec      | dots  | μsec      | dots  |
| H.TOTAL     | 15.63            | 1688  | 12.504           | 1688  | 10.971           | 1728  | 13.333           | 2160  | 64        | 1136  | 63.556    | 910   |
| H.BLK       | 3.777            | 408   | 3.023            | 408   | 2.844            | 448   | 3.457            | 560   | 12        | 213   | 10.9      | 156   |
| H.FP        | 0.444            | 48    | 0.119            | 16    | 0.406            | 64    | 0.395            | 64    | 1.5       | 26    | 1.5       | 22    |
| H.SYNC      | 1.037            | 112   | 1.067            | 144   | 1.016            | 160   | 1.185            | 192   | 4.7       | 84    | 4.7       | 67    |
| H.BP        | 2.296            | 248   | 1.837            | 248   | 1.422            | 224   | 1.877            | 304   | 5.8       | 103   | 4.7       | 67    |
| H.ACTIVE    | 11.852           | 1280  | 9.481            | 1280  | 8.127            | 1280  | 9.877            | 1600  | 52        | 923   | 52.656    | 754   |
| VERTICAL    |                  |       |                  |       |                  |       |                  |       |           |       |           |       |
| V.FREQ      | 60.02            | Hz    | 75.025           | Hz    | 85.024           | Hz    | 60               | Hz    | 50        | Hz    | 59.94     | Hz    |
|             | msec             | lines | msec             | lines | msec             | lines | msec             | lines | msec      | lines | msec      | lines |
| V.TOTAL     | 16.661           | 1066  | 13.329           | 1066  | 11.761           | 1072  | 16.667           | 1250  | 20        | 312.5 | 16.683    | 262.5 |
| V.BLK       | 0.657            | 42    | 0.526            | 42    | 0.527            | 48    | 0.666            | 50    | 1.632     | 25.5  | 1.303     | 20.5  |
| V.FP        | 0.016            | 1     | 0.013            | 1     | 0.011            | 1     | 0.013            | 1     | 0.192     | 3     | 0.254     | 4     |
| V.SYNC      | 0.047            | 3     | 0.038            | 3     | 0.033            | 3     | 0.04             | 3     | 0.16      | 2.5   | 0.191     | 3     |
| V.BP        | 0.594            | 38    | 0.475            | 38    | 0.483            | 44    | 0.613            | 46    | 1.28      | 20    | 0.858     | 13.5  |
| V.ACTIVE    | 16.005           | 1024  | 12.804           | 1024  | 11.235           | 1024  | 16               | 1200  | 18.368    | 287   | 15.381    | 245   |
| SYNC        |                  |       |                  |       |                  |       |                  |       |           |       |           |       |
| SOG         |                  |       |                  |       |                  |       |                  |       |           |       |           |       |
| EXT(H/V)    | (+/+)            |       | (+/+)            |       | (+/+)            |       | (+/+)            |       |           |       |           |       |
| EXT(COMP)   |                  |       |                  |       |                  |       |                  |       |           |       |           |       |
| COMP VIDEO  |                  |       |                  |       |                  |       |                  |       | YES       |       | YES       |       |
| VIDEO LEVEL | 0.714V           |       | 0.714V           |       | 0.714V           |       | 0.714V           |       | 0.700V    |       | 0.714V    |       |
| SYNC LEVEL  | TTL              |       | TTL              |       | TTL              |       | TTL              |       | 0.300V    |       | 0.286V    |       |

### 3-3. White Balance Adjustment

1. Switch the WINDOW to either TYPE1 or TYPE2.
2. Select the COLOR TEMP "HIGH".
3. Select RED GAIN and GREEN GAIN. Perform the white balance adjustment until the color temperature satisfies the specifications of 9300 K.  
Set BLUE GAIN to 255 normally.
4. Select the COLOR TEMP "LOW".
5. Set BLUE GAIN to 223. Then select RED GAIN and GREEN GAIN. Perform the white balance adjustment until the color temperature satisfies the specifications of 6500 K.

Note : When the white balance at 6500 K cannot be obtained by any means, decrement the BLUE GAIN by 16 steps and repeat the adjustment of step 5).

6. Switch the WINDOW to OFF.

### 3-4. A/D Calibration Adjustment

Note : When the part number of the B board and that of B1 board has the suffix of -11, replace the B1 board with the jig board as shown in the following figure (a).

1. Connect the VGA (640 × 480@60) signal to the RGB1 input connector.
2. Select the video signal of the 10 % flat field pattern.
3. Set the CAL mode to ON.
4. Check the following values that are shown in the bottom of the menu in cyan.  
R : XXX / G : XXX / B : XXX  
Adjust RED BIAS and BLUE BIAS until the following two equations are satisfied.  
 $(G \text{ value } -1) \leq R \text{ value} \leq (G \text{ value } +1)$   
and  
 $(G \text{ value } -1) \leq B \text{ value} \leq (G \text{ value } +1)$   
(Do not adjust GREEN BIAS.)
5. Select the video signal of the maximum brightness 90 % gray scale pattern.  
(Select the gray scale pattern that has the left half of display in black and the right half of display in white.)
6. Check the following values that are shown in the bottom of the menu in cyan.  
R : XXX / G : XXX / B : XXX  
Adjust RED BIAS and BLUE BIAS until the following two equations are satisfied.  
 $(G \text{ value } -1) \leq R \text{ value} \leq (G \text{ value } +1)$   
and  
 $(G \text{ value } -1) \leq B \text{ value} \leq (G \text{ value } +1)$   
(Do not adjust GREEN BIAS.)
7. Set the CAL mode to OFF.

B1 jig board (The B1 jig board is necessary for the B/B1 board that has part number with suffix of -11.)

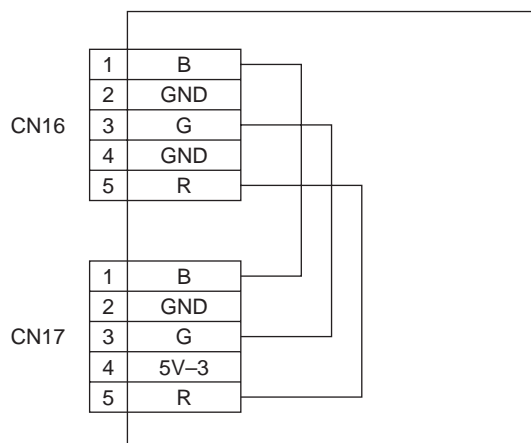


Fig. (a)

### 3-5. Video Processor Adjustment

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#### YUV Level Check and Adjustment

1. Connect the 525/60 signal to the YUV input connector.
2. Select the color bar signal.
3. Measure the voltage waveform at pin-14 of IC1003 with an oscilloscope. Confirm that the video signal excluding sync signal has the following amplitude.  
 $660 \text{ mV} \pm 5 \%$   
(If the video signal excluding sync is outside the specifications, adjust the video signal level using the Y GAIN.)
4. Measure the voltage waveform at pin-15 of IC1003 with an oscilloscope. Confirm that the R-Y signal has the following amplitude.  
 $580 \text{ mV} \pm 5 \%$   
(If the R-Y signal is outside the specifications, adjust the R-Y signal level using the R-Y GAIN.)
5. Measure the voltage waveform at pin-4 of IC1003 with an oscilloscope. Confirm that the B-Y signal has the following amplitude.  
 $700 \text{ mV} \pm 5 \%$   
(If the B-Y signal is outside the specifications, adjust the B-Y signal level using the B-Y GAIN.)

---

#### Cutoff Adjustment

1. Connect the Y signal of the 525/60 signal to the Y input only of the YUV input connector.
2. Select the gray scale signal.
3. Observe the dark area of display screen. Adjust R CUTOFF and B CUTOFF until the dark area has completely no color at all.

### 3-6. Watch Error Adjustment

1. Connect the jig circuit as shown in Fig. (b) and a frequency counter to the B board CN18.
2. Enter the measurement value on a frequency counter in the WATCH ERROR.

#### WATCH ERROR Jig Circuit

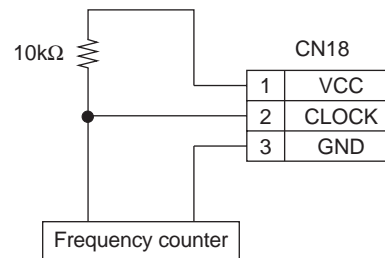


Fig. (b)



### 3-7. Switching Regulator (APS-132 M/136 M Board) Adjustments

#### 3-7-1. Preparation

1. Remove the switching regulator from the set, and adjust it under no load.
2. If adjusting the switching regulator with each output loaded, set as follows.

##### • Load on each output

| Output    | Pin No.   | MIN    | MAX   |
|-----------|-----------|--------|-------|
| VCC       | CN4 ① pin | 1.0 A  | 5.0 A |
| VS        | CN5 ② pin | 0.5 A  | 1.7 A |
| VA        | CN5 ⑤ pin | 0.5 A  | 1.5 A |
| AUDIO +B  | CN6 ③ pin | 0.05 A | 1.0 A |
| STBY +5 V | CN7 ② pin | 0.2 A  | 0.3 A |
| 5VD       | CN7 ⑤ pin | 1.2 A  | 1.8 A |
| 6.2 V     | CN7 ⑧ pin | 0.6 A  | 1.0 A |
| 13.5 V    | CN7 ⑫ pin | 0.5 A  | 1.0 A |
| 13 V      | CN7 ⑭ pin | 0.4 A  | 1.0 A |

#### 3-7-2. 13 V System Minimum Frequency Adjustment

1. Apply 18 V DC to both ends of C169.
2. Connect a frequency counter between gate and source of Q153.

Note : As the input of frequency counter, use 10 : 1 oscilloscope probes and raise the input impedance.

3. Adjust the RV150 so that the oscillation frequency is  $93 \pm 0.5$  kHz.

#### 3-7-3. VS System Minimum Frequency Adjustment

1. Short between pin-3 and pin-4 of PH501.
2. Apply 18 V DC to both ends of C169.
3. Connect a frequency counter between gate and source of Q503.

Note : As the input of frequency counter, use 10 : 1 oscilloscope probes and raise the input impedance.

4. Adjust the RV500 so that the oscillation frequency is  $49 \pm 0.5$  kHz.

#### 3-7-4. VA System Minimum Frequency Adjustment

1. Short between pin-3 and pin-4 of PH701.
2. Apply 18 V DC to both ends of C169.
3. Connect a frequency counter between gate and source of Q703.

Note : As the input of frequency counter, use 10 : 1 oscilloscope probes and raise the input impedance.

4. Adjust the RV700 so that the oscillation frequency is  $65 \pm 0.5$  kHz.

#### 3-7-5. PFC Voltage Adjustment

1. Set the load on each output to the minimum.
2. Apply 100 V AC.
3. Turn the STBY signal ON. (short between CN7 pin-1 and pin-2).
4. Adjust the RV300 so that the voltage across C115 is  $385 \pm 2$  V.

#### 3-7-6. 5 V Adjustment

1. Set the load on each output to the minimum.
2. Apply 100 V AC.
3. Adjust the RV201 so that the voltage of STBY +5 V output (between CN7 pin-2 and pin-6) is  $5.12 \pm 0.03$  V.

#### 3-7-7. 13.5 V Adjustment

1. Set the load on each output to the minimum.
2. Apply 100 V AC.
3. Turn the STBY signal ON. (short between CN7 pin-1 and pin-2).
4. Adjust the RV250 so that the voltage of 13.5 V output (between CN7 pin-12 and pin-11) satisfies the following specifications.

Specification value

PFM-500A3W :  $13.95 \pm 0.05$  V

PFM-510A2W :  $13.7 \pm 0.05$  V

### 3-7-8. VS Adjustment

1. Open the load on VS and VA outputs, and set the load on the other outputs to the minimum.
2. Apply 100 V AC.
3. Turn the STBY signal ON (short between CN7 pin-1 and pin-2), and also the VRR signal ON (short between CN4 pin-7 and CN7 pin-2).
4. Apply 0 V DC to the VRS (CN4 pin-3).  
Use CN4 pin-4 as GND.
5. Adjust the RV402 so that the voltage of VS output (between CN5 pin-2 and pin-6) is about 149 V.
6. Adjust the RV400 so that the voltage satisfies the following specifications.  
Specification value  
PFM-500A3W : 164.3 V  
PFM-510A2W : 149.2 V
7. Adjust the RV402 so that the voltage satisfies the following specifications.  
Specification value  
PFM-500A3W :  $165 \pm 0.1$  V  
PFM-510A2W :  $150 \pm 0.1$  V
8. Apply 2 V DC to the VRS.
9. Check that the voltage satisfies the following specifications. If the measured value is out of the range, repeat the above steps from 4, where in step 6, shift the adjustment value a little, then check the voltage.  
Specification value  
PFM-500A3W :  $185 \pm 0.3$  V  
PFM-510A2W :  $170 \pm 0.3$  V

### 3-7-9. VS OCP (Only PFM-510A2W)

1. Set the load on each output to the minimum.
2. Apply 100 V AC.
3. Turn the STBY signal ON (short between CN7 pin-1 and pin-2), and also the VRR signal ON (short between CN4 pin-7 and CN7 pin-2).
4. Apply 0 V DC to the VRS (CN4 pin-3).  
Use CN4 pin-4 as GND.
5. Connect a voltmeter to the VS output (between CN5 pin-2 and pin-6).
6. Set the load on VS output to 3.8 A, and rotate the RV401 until the output voltage varies.

Note : Be careful, not to turn excessively, because power can not be obtained.

### 3-7-10. VA Adjustment

1. Open the load on VS and VA outputs, and set the load on the other outputs to the minimum.
  2. Apply 100 V AC.
  3. Turn the STBY signal ON (short between CN7 pin-1 and pin-2), and also the VRR signal ON (short between CN4 pin-7 and CN7 pin-2).
  4. Apply 0 V DC to the VRA (CN4 pin-5).  
Use CN4 pin-6 as GND.
  5. Adjust the RV602 so that the voltage of VA output (between CN5 pin-5 and pin-1) is about 49 V.
  6. Adjust the RV600 so that the voltage satisfies the following specifications.  
Specification value  
PFM-500A3W : 54.5 V  
PFM-510A2W : 49.2 V
  7. Adjust the RV602 so that the voltage satisfies the following specifications.  
Specification value  
PFM-500A3W :  $55 \pm 0.1$  V  
PFM-510A2W :  $50 \pm 0.1$  V
  8. Apply 2 V DC to the VRA.
  9. Check that the voltage satisfies the following specifications. If the measured value is out of the range, repeat the above steps from 4, where in step 6, shift the adjustment value a little, then check the voltage.
- Note : As the output voltage varies according to the voltage applied to the VRA, do not shift the applied voltage (2 V DC).
- Specification value  
PFM-500A3W :  $65 \pm 0.3$  V  
PFM-510A2W :  $70 \pm 0.3$  V

### 3-7-11. VA OCP (Only PFM-510A2W)

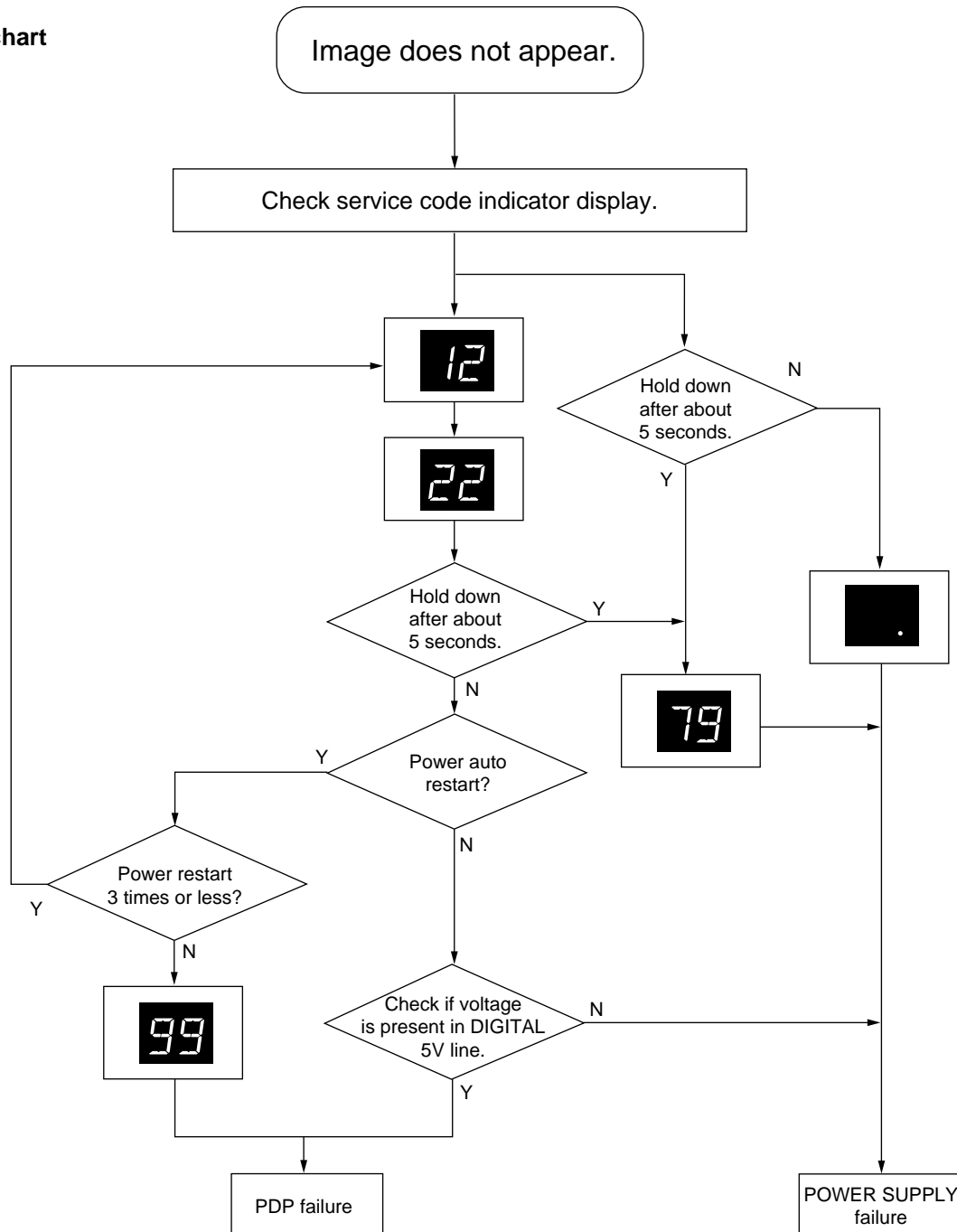
1. Set the load on each output to the minimum.
2. Apply 100 V AC.
3. Turn the STBY signal ON (short between CN7 pin-1 and pin-2), and also the VRR signal ON (short between CN4 pin-7 and CN7 pin-2).
4. Apply 0 V DC to the VRA (CN4 pin-5).  
Use CN4 pin-6 as GND.
5. Connect a voltmeter to the VA output (between CN5 pin-5 and pin-1).
6. Set the load on VA output to 4.4 A, and rotate the RV601 until the output voltage varies.

Note : Be careful, not to turn excessively, because power can not be obtained.

## Section 4 Trouble Shooting

### 4-1. Judging Method When Image Does Not Appear

#### 1. Flow chart



#### 2. How to find PDP unit trouble

- 1) The power must be supplied normally to the PDP unit. This power is supplied through two black 8-pin connectors from the power unit. The kinds of power supply are 160 V line, 60 V line, and 5 V line.

- 2) As input signals, H.SYNC (negative polarity), V.SYNC (negative polarity), BLANKING (negative polarity), CLOCK and RGB digital data (8 bit × 3) must be entered normally and DISPEN must be “high”.

If no images appears through the above conditions are satisfied, the PDP unit will be defective.

## 4-2. Self Diagnosis Function

### 4-2-1. Outline

The PFM-500A3W/510A2W has the self diagnosis function using A/D converter to detect the power supply analog voltages, 8 channels of temperature sensor, fan operations, power unit temperature, DC voltage status, and to check the EEPROM and the watch register. When any abnormality occurs or defect is detected, the Error Code appears on the service code indicator of the power supply block, the standby indicator on the control panel flashes and the detected data is displayed on the service menu [STATUS/TEST] block. If the abnormal status exceeds the allowable limit, the PFM-500A3W/510A2W is forced to shut down.

The detection items are shown as follows.

1. Increase and decrease of the panel DC voltage Vs is detected.
2. Increase and decrease of the panel DC voltage Va is detected.
3. Increase of temperature at the side of the power block in the top of the panel is detected and shut down of the machine.
4. Increase of temperature at the center in the top of the panel is detected and shut down of the machine.
5. Increase of temperature at the side of the input connector block in the top of the panel is detected and shut down of the machine.
6. Detection of outside environment temperature.
7. Detection of fan stop and that of drive circuit failure.  
\* Three fans at the top of the panel and two fans for power supply.
8. Detection of temperature rise in the power supply block.
9. Shut down when the 5 V for internal digital circuit has abnormality.
10. Detection of failure of the EEPROM.
11. Detection of abnormality in communication with scan converter.
12. Detection of failure in the ON/OFF control of power supply.
13. Detection of decreased backup power supply voltage for watch and detection of abnormality in oscillator.
14. Detection of PDP failure using the combination of the voltage detection and shut down of the machine.

### 4-2-2. Criteria for Judgment of Abnormality

1. Increase and decrease of the panel DC voltage Vs is detected.  
(Name of this function on the service menu :  
POWER SUPPLY - PDP VS)
  - PFM-510A2W  
The normal operating range is + 160 V + 24 V/− 22 V.  
Warning of increase of the voltage Vs when 184 V or more : Service code [11]  
Warning of decrease of the voltage Vs when 138 V or less : Service code [12]
  - PFM-500A3W  
The normal operating range is + 175 V + 26 V/− 23 V.  
Warning of increase of the voltage Vs when 201 V or more : Service code [11]  
Warning of decrease of the voltage Vs when 152 V or less : Service code [12]
2. Increase and decrease of the panel DC voltage Va is detected.  
(Name of this function on the service menu :  
POWER SUPPLY - PDP VA)  
The normal operating range is + 60 V + 15 V/− 14 V.  
Warning of increase of the voltage Va when 75 V or more : Service code [21]  
Warning of decrease of the voltage Va when 46 V or less : Service code [22]
3. Increase of temperature at the side of the power block in the top of the panel is detected and shut down of the machine.  
(Name of this function on the service menu :  
TEMPERATURE - P/S BLOCK SIDE)  
The normal operating range is up to 57 °C.  
Warning of high temperature when 58 °C or higher : Service code [31]  
Shut down at the temperature of 68 °C or higher : Service code [39]
4. Increase of temperature at the center in the top of the panel is detected and shut down of the machine.  
(Name of this function on the service menu :  
TEMPERATURE - CENTER)  
The normal operating range is up to 55 °C.  
Warning of high temperature when 56 °C or higher : Service code [A1]  
Shut down at the temperature of 66 °C or higher : Service code [A9]
5. Increase of temperature at the side of the input connector block in the top of the panel is detected and shut down of the machine.  
(Name of this function on the service menu :  
TEMPERATURE - I/O BLOCK SIDE)  
The normal operating range is up to 53 °C.  
Warning of high temperature when 54 °C or higher : Service code [41]  
Shut down at the temperature of 64 °C or higher : Service code [49]

6. Detection of outside environment temperature  
(Name of this function on the service menu :  
TEMPERATURE - AMBIENT TEMP)  
Occurrence of abnormality and fault is judged solely  
from the internal temperature of the PFM-500A3W/  
510A2W. Measurement of the ambient temperature  
aims mainly at the confirmation of the operating  
environment. Therefore, there is no chance to indicate  
this warning message.  
Warning of high temperature at 60 °C or higher :  
Service code [F1]
7. Detection of fan stop and that of drive circuit failure.
  - Detection if fan is stopped or not.  
(Name of this function on the service menu : FAN - I/O  
BLOCK SIDE, CENTER, P/S BLOCK SIDE, No. 1, No. 2)  
Status of the respective fans are displayed as OK or  
NG on the service menu STATUS.
  - Fan of the power supply block at the top of the rear  
of the machine : Service code [55]
  - Fan in the center of the top on the rear of the ma-  
chine : Service code [54]
  - Fan on the input terminal at the top on the rear of the  
machine : Service code [53]
  - Two fans of the power supply block :  
Service code [52]  
or [51]
  - Detection of fan drive circuit failure  
(Name of this function on the service menu :  
FAN - DRIVE CIRCUIT)  
The warning when the fan drive data is 6 V or more  
and the actual drive voltage is 2 V or less :  
Service code [58]
8. Detection of temperature rise in the power supply block.  
(Name of this function on the service menu :  
TEMPERATURE - P/S INTERNAL)  
Warning of high temperature when temperature of the  
heat sink for main converter inside the power supply  
unit exceeds the allowable limit : Service code [61]
9. Shut down when the 5 V for internal digital circuit has  
abnormality.  
(Name of this function on the service menu :  
POWER SUPPLY - DIGITAL 5V)  
The voltage that is input to pin-62 of the system  
controller (IC252) is detected.  
Shut down when there is no input voltage :  
Service code [79]
10. Detection of failure of the EEPROM.  
(Name of this function on the service menu : Nil)  
Warning when communication with EEPROM cannot  
be performed normally.  
EEPROM ID code error : Service code [81]  
EEPROM data write error : Service code [82]  
EEPROM data read error : Service code [83]  
EEPROM failure : Service code [85]
11. Detection of abnormality in communication with scan  
converter.  
(Name of this function on the service menu : Nil)  
Warning when communication with scan converter  
cannot be performed normally.  
EEPROM ID code error : Service code [91]
12. Detection of failure in the ON/OFF control of power  
supply.  
(Name of this function on the service menu : Nil)  
When the digital 5 V power does not decrease even in  
the STBY state, the machine enters the POWR ON  
state automatically : Service code [98]
13. Detection of decreased voltage of the backup power  
supply for watch and detection of abnormality of  
oscillator.  
(Name of this function on the service menu : Nil)  
Normal/abnormal is detected from the register value  
inside the watch IC.  
Initialization of time due to abnormal register value :  
Service code [B1]  
Warning of low voltage of backup power supply :  
Service code [B2]  
Warning that crystal oscillator for watch has stopped :  
Service code [B3]
14. Detection of PDP failure using the combination of the  
voltage detection and shut down of the machine.  
(Name of this function on the service menu : Nil)  
PDP is suspected to be defective when DIGITAL 5 V  
is normal among the voltages (VS, VA, DIGITAL 5  
V) required to drive PDP while both VS and VA are  
not inputted.  
When all the following conditions are satisfied, the  
machine enters once to the STANDBY mode then turn  
the main power back on again.
  - 1) DC 180 V power is 40 V or less.
  - 2) DC 70 V power is 20 V or less.
  - 3) DIGITAL 5 V is normal.
 The above-described operation is repeated three times.  
If the above three conditions are still satisfied, the PDP  
is judged to be faulty and the main power is shut  
down.  
Service code [99]

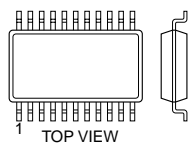
### 4-3. Error Code Table

| Error Code on Display | Abnormal/Defective State                                                                         | Name of Function |                |
|-----------------------|--------------------------------------------------------------------------------------------------|------------------|----------------|
| 11                    | Warning of increase of panel high voltage (Vs)                                                   | POWER SUPPLY     | PDP VS         |
| 12                    | Warning of decrease of panel high voltage (Vs)                                                   | POWER SUPPLY     | PDP VS         |
| 21                    | Warning of increase of panel middle voltage (Va)                                                 | POWER SUPPLY     | PDP VA         |
| 22                    | Warning of decrease of panel middle voltage (Va)                                                 | POWER SUPPLY     | PDPVA          |
| 31                    | Warning of increase of temperature at the power supply block in the top of the panel             | TEMPERATURE      | P/S BLOCK SIDE |
| 39                    | Power shut down due to increase of temperature at the power supply block in the top of the panel | TEMPERATURE      | P/S BLOCK SIDE |
| A1                    | Warning of increase of temperature at the center of the top of the panel                         | TEMPERATURE      | CENTER         |
| A9                    | Power shut down due to increase of temperature at the center of the top of the panel             | TEMPERATURE      | CENTER         |
| 41                    | Warning of increase of temperature at the input/output block of the top of the panel             | TEMPERATURE      | I/O BLOCK SIDE |
| 49                    | Power shut down due to increase of temperature at the input/output block of the top of the panel | TEMPERATURE      | I/O BLOCK SIDE |
| 51                    | Warning of stoppage of air intake fan-1 of the power supply block                                | FAN              | No.1           |
| 52                    | Warning of stoppage of air intake fan-2 of the power supply block                                | FAN              | No.2           |
| 53                    | Warning of stoppage of fan at the input/output block of the panel top                            | FAN              | I/O BLOCK SIDE |
| 54                    | Warning of stoppage of fan at the center of the panel top                                        | FAN              | CENTER         |
| 55                    | Warning of stoppage of fan of the power supply block in the top of the panel                     | FAN              | P/S BLOCK SIDE |
| 58                    | Failure of fan drive circuit                                                                     | FAN              | DRIVE CIRCUIT  |
| 79                    | Power shut down due to decrease of DIGITAL 5 V                                                   |                  |                |
| 81                    | EEPROM ID error                                                                                  |                  |                |
| 82                    | EEPROM write error                                                                               |                  |                |
| 83                    | EEPROM read error                                                                                |                  |                |
| 85                    | EEPROM is defective                                                                              |                  |                |
| 91                    | Communication with scan converter is defective                                                   |                  |                |
| 98                    | Failure that voltage does not decrease at POWER OFF                                              |                  |                |
| 99                    | Panel is defective                                                                               |                  |                |
| B1                    | Warning of initialization of time data due to watch control error                                |                  |                |
| B2                    | Decrease of the backup power voltage for watch                                                   |                  |                |
| B3                    | Oscillator for watch is defective                                                                |                  |                |
| F1                    | Warning of increase of ambient temperature                                                       |                  |                |

## Section 5

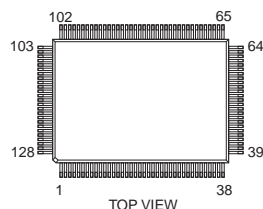
### Semiconductors

24LC21T/SN  
BA10358F-T2  
CXA1211M-T4  
LM1881MX  
M24C04-WMN6T  
M24C64-WMN6T  
MM1113XFB  
NJM2903M-T2  
NJM2904E(Te2)  
ST49C101ACF8-05-TR  
TC4W53FU(Te12R)  
TC4W66F(Te12R)  
TC7W126FU(Te12R)  
TL026CPS-E05  
μPC358G2-T1

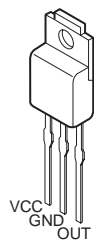


8pin SOP

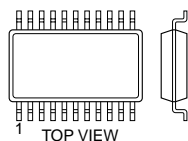
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BA033FP-E2

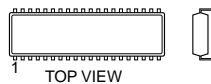


BA7657F-E2  
TA8184F(EL)



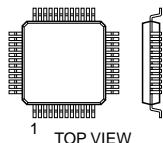
24pin SOP

CXA1739S



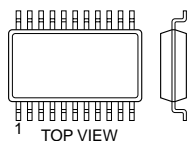
48pin DIP

CXA1860Q-T4  
CXD2300Q-T4



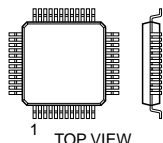
32pin QFP

CXA2119M-T6  
MB90096PF-G-182-BND-ER



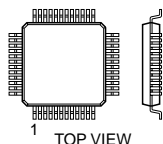
28pin SOP

CXD2030R



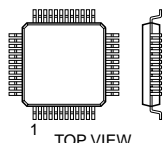
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CXD2090Q



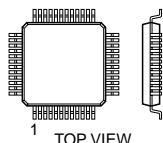
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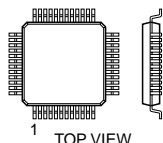
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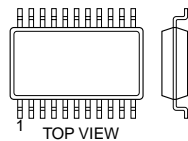
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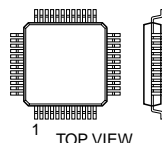
120pin QFP

ICS9161A-01CW16T  
MAX202CSE-T  
MC74HC4052F-T2  
MC74HC4538AF-T1  
MC74HC595AF-T2  
TC74HC123AF(EL)  
TC74HC157AF(EL)  
TC74HC4053AF(EL)



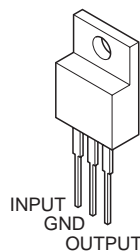
16pin SOP

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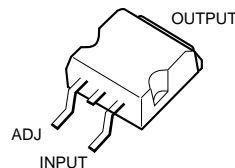


128pin QFP

LM2940CT-12FL91  
LM2940CT-5.0  
LM2940CT-9.0



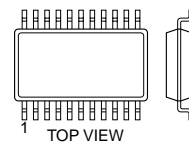
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LM35DZ

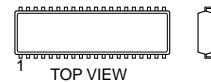


M52347FP-TE  
M62352GP-75ED  
TC74HCT244AF(EL)  
TC74LCX244F(EL)  
TC74VHCT245AFT(EL)  
TDA8395T/N3



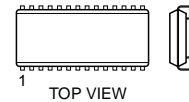
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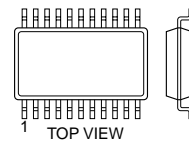
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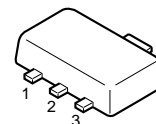
40pin SOJ

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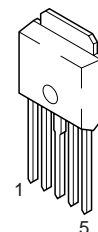


50pin SOP

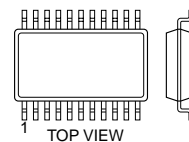
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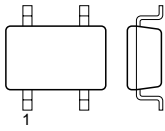


RS5C348A-E2



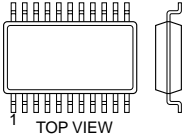
10pin SOP

**S-80842ANNP-ED6-T2**



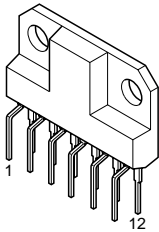
4pin CHIP

**SN74LVC125APWR**  
**TC74HC04AF-TP2**  
**TC74HC125AF(EL)**  
**TC74VHC14F(EL)**  
**TC74VHCT04AF(EL)**  
**TLC2932IPW-E20**  
**TLC2933IPWR**

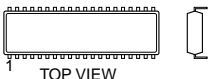


14pin SOP

**TA8216H**

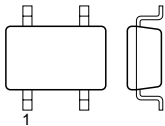


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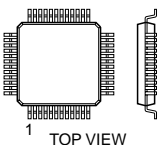
14pin DIP

**TC7S04F(Te85R)**  
**TC7S04FU(Te85R)**  
**TC7S08FU(Te85R)**



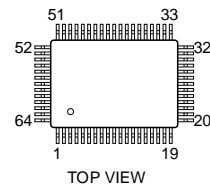
5pin CHIP

**THC63LVDF84A-T**



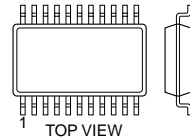
56pin QFP

**TLC5733AIPM**



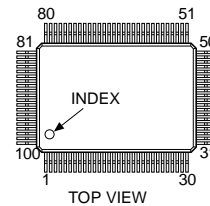
TOP VIEW

**UPC1862GS-E2**



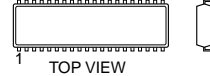
36pin SOP

**UPD64082GF-3BA**



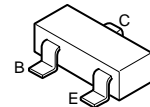
TOP VIEW

**Z8622812PSC**

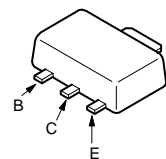


18pin DIP

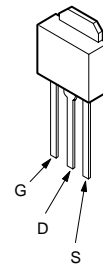
**2SA1036K-T-146-R**  
**2SA1037AK-T146-QR**  
**2SA1037K-T-146-S**  
**2SB709A-QRS-TX**  
**2SC2412K-T-146-Q**  
**2SC2412K-T-146-QR**  
**2SC2412K-T-146-R**  
**2SC2412K-T-146-S**  
**DTA114EKA-T146**  
**DTA144EKA-T146**  
**DTC114EKA-T146**  
**DTC144EKA-T146**



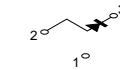
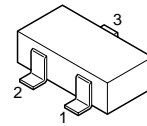
**2SA1213Y-TE12L**



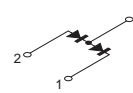
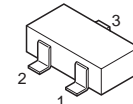
**2SJ377(Te16L)**



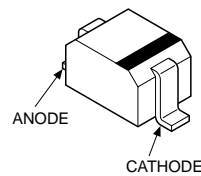
**02CZ10-TE85L**  
**RD5.6M-T1B2**



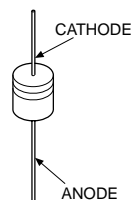
**1SS226-TE85L**  
**MA157-TX**



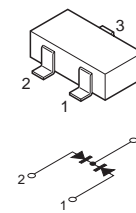
**1SS355TE-17**  
**DTZ-TT11-3.3B**  
**HVU359TRF**  
**MA111-TX**  
**UDZ-TE-17-12B**  
**UDZ-TE-17-3.9B**  
**UDZ-TE-17-36B**  
**UDZ-TE-17-4.7B**  
**UDZ-TE-17-5.6B**



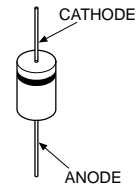
**D1N20R-TR**  
**RD10ES-T1B2**



**DAN202K-T-146**



**RD33ES-T1B2**





## Section 6

### Exploded Views

**NOTE :**

The components identified marked ⚠ are critical for safety.  
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

6-1. Power Block

- : 7-685-648-79

+BVTP3x12
- ▲: 7-682-950-09

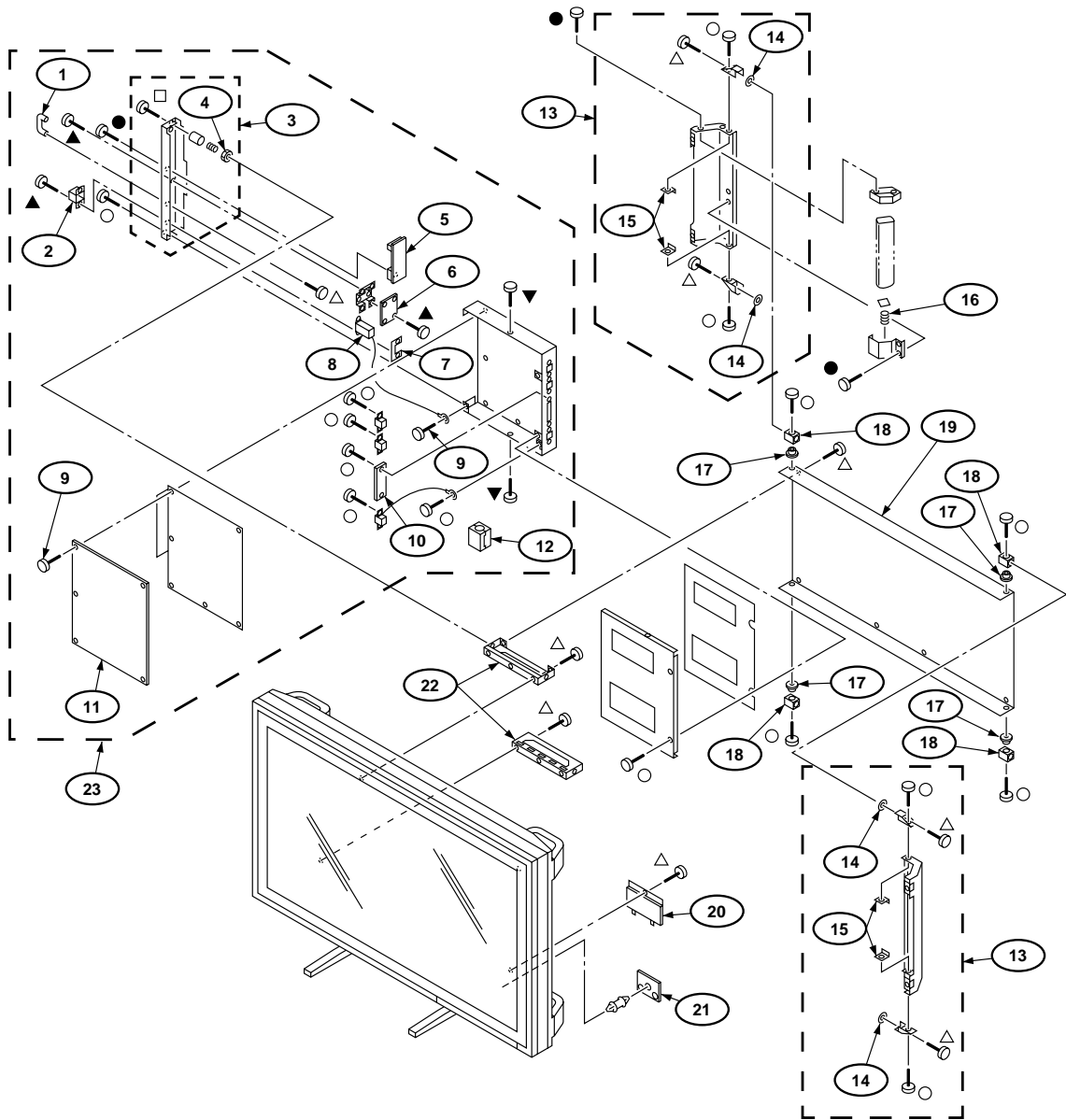
+PSW3x12
- ▼: 7-682-249-04

+K3x10
- : 7-682-949-09

+PSW3x10
- △: 7-682-962-09

+PSW4x10
- : 7-682-566-04

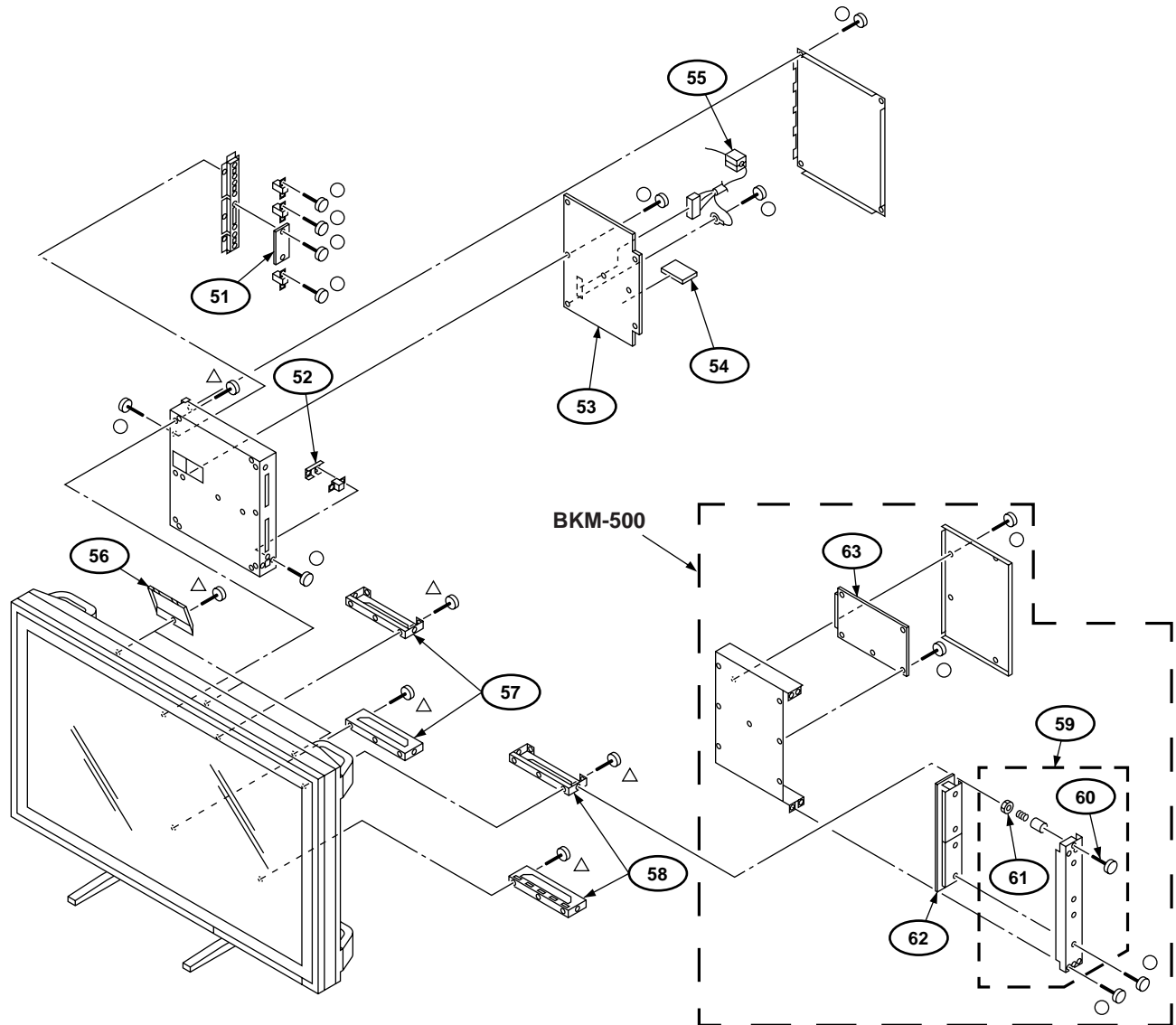
+B4x20



| Ref.No. | Part No.       | Description                                            | Remark | Ref.No. | Part No.       | Description                                    | Remark |
|---------|----------------|--------------------------------------------------------|--------|---------|----------------|------------------------------------------------|--------|
| 1       | 4-052-200-01   | HANDLE, PROTECTOR                                      |        | 12      | 1-543-653-11   | CORE ASSY, BEAD(DIVISION TYPE)<br>(PFM-510A2W) |        |
| 2       | 2-990-241-02   | HOLDER (A), PLUG                                       |        | 13      | * X-4035-827-1 | COVER ASSY, SIDE                               | 14, 15 |
| 3       | * X-4036-671-3 | PANEL ASSY, POWER UNIT                                 | 4      | 14      | 3-696-510-01   | WASHER (3), STOPPER                            |        |
| 4       | * 3-648-057-00 | NUT (ISO-4), U                                         |        | 15      | 4-065-249-01   | NUT, PLATE                                     |        |
| 5       | * A-1373-813-A | UA MOUNT                                               |        | 16      | 3-669-594-00   | SPRING, COMPRESSION                            |        |
| 6       | * A-1272-048-A | AF MOUNT                                               |        | 17      | * 4-075-284-01 | SPACER                                         |        |
| 7       | 3-625-620-00   | BRACKET, AC CONNECTOR                                  |        | 18      | 4-065-239-01   | NUT                                            |        |
| 8       | △ 1-540-178-21 | INLET, AC (GL-2100C-30)                                |        | 19      | * 4-074-162-01 | COVER, REAR                                    |        |
| 9       | 4-066-309-01   | SCREW, MACHINE, (+) P M4X8                             |        | 20      | * 4-065-262-01 | COVER, HAND HOLE                               |        |
| 10      | * A-1311-857-A | G2 MOUNT (PFM-500A3W)                                  |        | 21      | * A-1372-828-A | H6 MOUNT                                       |        |
| 10      | * A-1311-853-A | G2 MOUNT (PFM-510A2W)                                  |        | 22      | * X-4035-835-2 | BRACKET ASSY (A), REAR COVER                   |        |
| 11      | 1-468-522-11   | REGULATOR, SWITCHING<br>(APS-136 M BOARD) (PFM-500A3W) |        | 23      | * A-1484-854-A | POWER BLOCK ASSY (PFM-500A3W) 1-17             |        |
| 11      | 1-468-447-11   | REGULATOR, SWITCHING<br>(APS-132 M BOARD) (PFM-510A2W) |        | 23      | * A-1484-837-A | POWER BLOCK ASSY (PFM-510A2W) 1-17             |        |

## 6-2. SC and I/O Blocks

○: 7-682-949-09 +PSW3x10  
 △: 7-682-962-09 +PSW4x10



| Ref.No. | Part No.       | Description                  | Remark | Ref.No. | Part No.       | Description          | Remark |
|---------|----------------|------------------------------|--------|---------|----------------|----------------------|--------|
| 51      | * A-1311-858-A | G1 MOUNT (PFM-500A3W)        |        | 59      | * X-4035-837-3 | PANEL ASSY, I/O UNIT | 60, 61 |
| 51      | * A-1311-854-A | G1 MOUNT (PFM-510A2W)        |        | 60      | * 4-050-804-01 | SCREW, PANEL STOPPER |        |
| 52      | 4-065-253-01   | NUT (A), PLATE               |        | 61      | * 3-648-057-00 | NUT (ISO-4), U       |        |
| 53      | * A-1131-604-A | B MOUNT (PFM-500A3W)         |        | 62      | * A-1373-812-A | UJ MOUNT             |        |
| 53      | * A-1131-595-A | B MOUNT (PFM-510A2W)         |        | 63      | * A-1372-829-A | H1 MOUNT             |        |
| 54      | * A-1131-596-A | B1 MOUNT                     |        |         |                |                      |        |
| 55      | 1-500-037-11   | CORE, FERRITE (WITH CASE)    |        |         |                |                      |        |
| 56      | * 4-067-117-01 | COVER, FAN                   |        |         |                |                      |        |
| 57      | * X-4035-917-2 | BRACKET ASSY (B), REAR COVER |        |         |                |                      |        |
| 58      | * X-4035-835-2 | BRACKET ASSY (A), REAR COVER |        |         |                |                      |        |

6-3. Cabinet Block

- : 7-682-973-49

+PSW5x16
- : 7-682-949-09

+PSW3x10
- △

: 7-682-962-09

+PSW4x10
- ▽

: 7-682-970-09

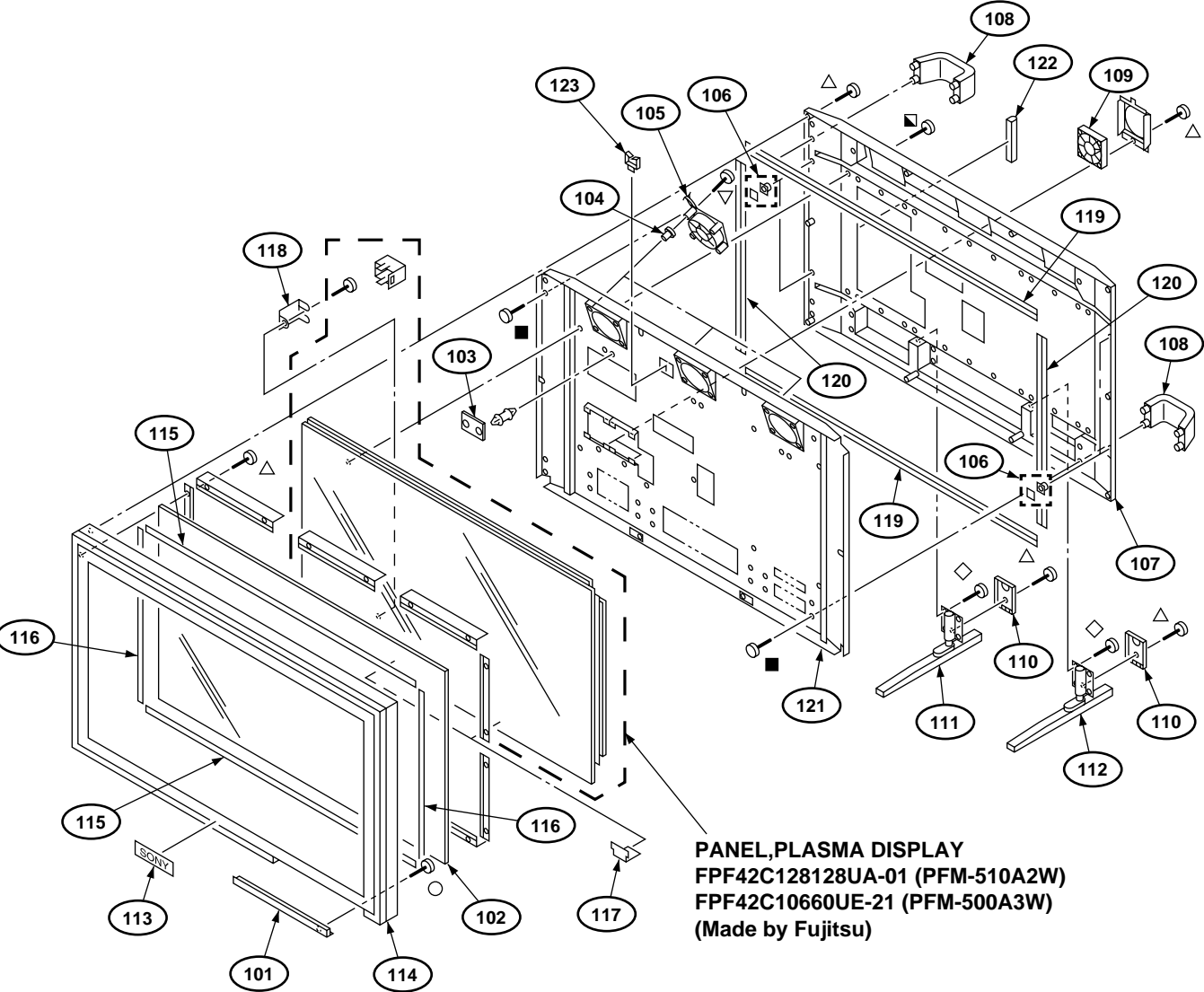
+PSW4x40
- ◇

: 7-682-965-01

MACHINE SCREW +P M4x16
- ▣

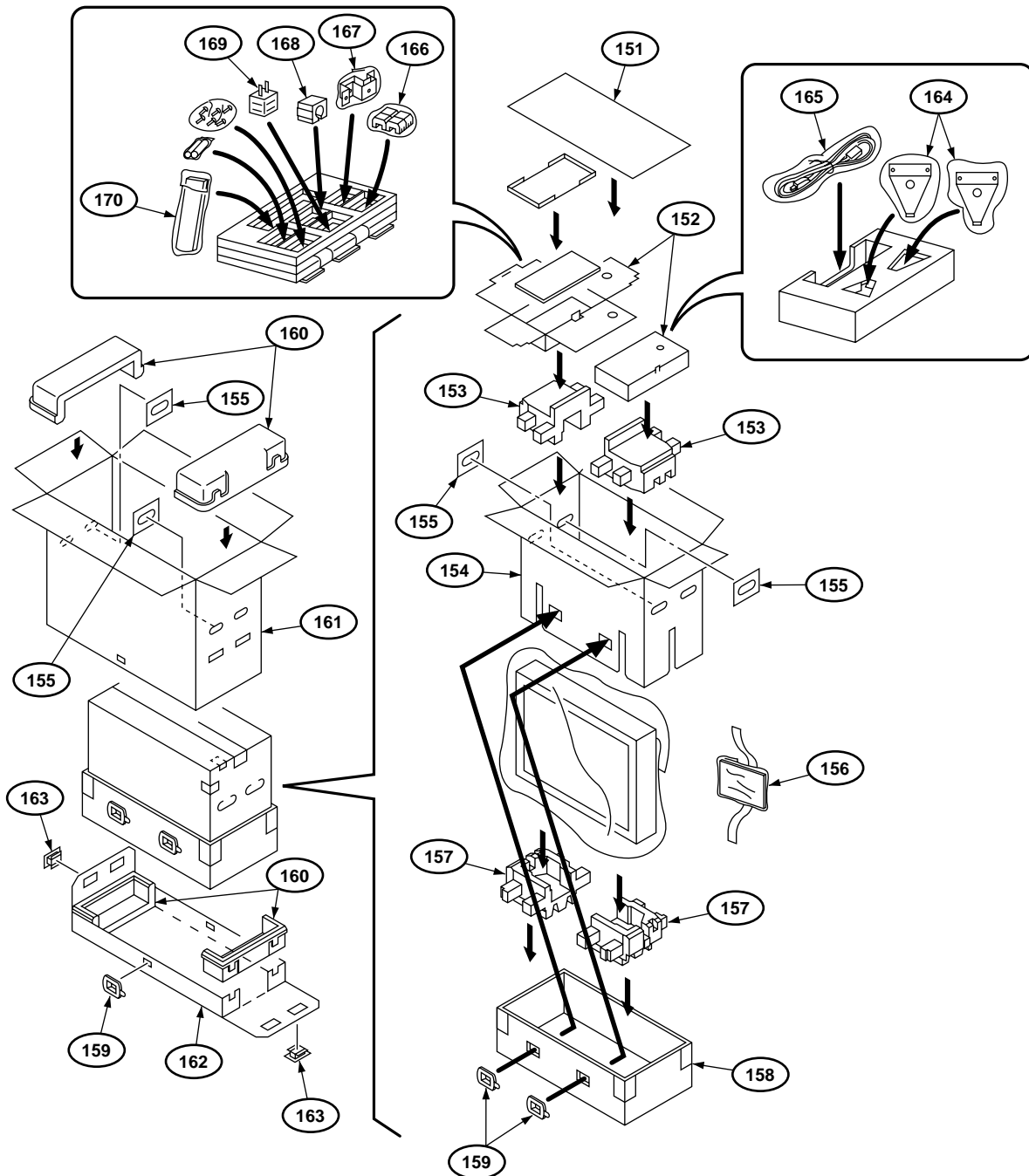
: 7-628-000-08

+PSW5x50



| Ref.No. | Part No.       | Description                        | Remark | Ref.No. | Part No.       | Description       | Remark |
|---------|----------------|------------------------------------|--------|---------|----------------|-------------------|--------|
| 101     | 1-475-914-12   | BOARD UNIT, KEY                    |        | 110     | * 4-065-296-01 | COVER, FOOT       |        |
| 102     | 1-758-502-11   | GLASS, OPTICAL FILTER (PFM-500A3W) |        | 111     | * X-4035-829-1 | FOOT (L) ASSY     |        |
| 102     | * 1-758-411-11 | GLASS, OPTICAL FILTER (PFM-510A2W) |        | 112     | * X-4035-828-1 | FOOT (R) ASSY     |        |
| 103     | * A-1391-046-A | S1 MOUNT                           |        | 113     | * X-4036-360-1 | EMBLEM ASSY       |        |
| 104     | 4-062-616-01   | BUSHING, RUBBER                    |        | 114     | X-4035-913-2   | BEZEL ASSY        |        |
| 105     | 1-763-144-11   | FAN, DC                            |        | 115     | * 4-065-188-31 | GASKET            |        |
| 106     | X-4035-885-1   | NUT ASSY, PLATE                    |        | 116     | * 4-065-188-21 | GASKET            |        |
| 107     | * X-4037-115-1 | CABINET ASSY, REAR                 |        | 117     | * 4-070-356-01 | PLATE, PROTECTION |        |
| 108     | * 4-070-197-01 | HANDLE                             |        | 118     | * 4-070-357-01 | PLATE, EARTH      |        |
| 109     | 1-763-370-11   | FAN, DC (WITH SENSOR)              |        | 119     | * 4-071-740-01 | GASKET            |        |
|         |                |                                    |        | 120     | * 4-071-739-01 | GASKET            |        |
|         |                |                                    |        | 121     | * X-4035-832-7 | SHIELD ASSY, MAIN |        |
|         |                |                                    |        | 122     | * 4-071-738-01 | GASKET            |        |
|         |                |                                    |        | 123     | * 3-646-071-02 | HOLDER, WIRE      |        |

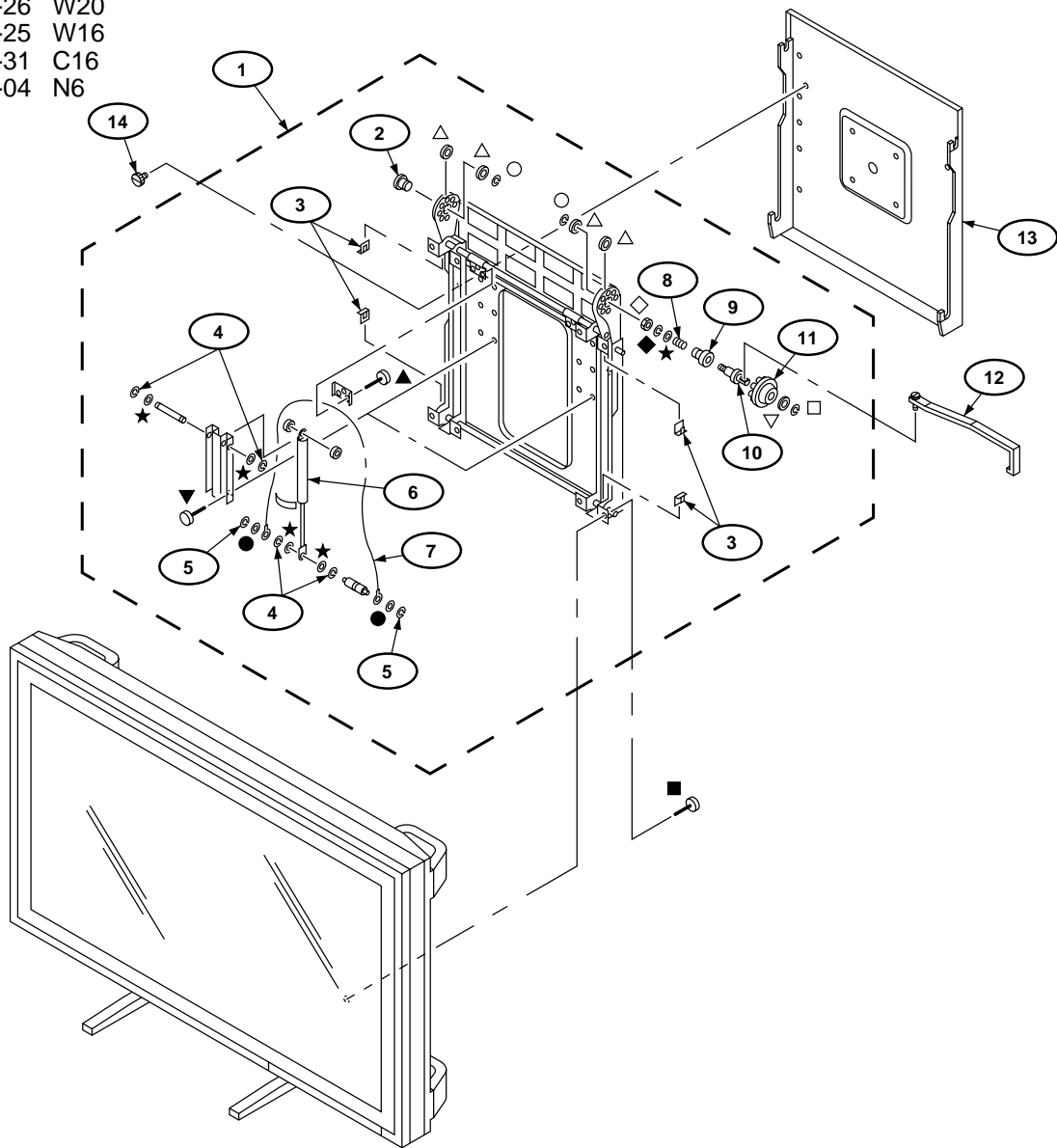
## 6-4. Packing Materials



| Ref.No. | Part No.       | Description            | Remark | Ref.No. | Part No.       | Description                         | Remark |
|---------|----------------|------------------------|--------|---------|----------------|-------------------------------------|--------|
| 151     | * 4-066-055-01 | BOARD, TOP             | 155    | 161     | * 4-070-417-02 | INDIVIDUAL CARTON (A)               | 155    |
| 152     | * 4-069-139-01 | BOX, ACCESSORY         |        | 162     | * 4-070-418-01 | TRAY (A)                            |        |
| 153     | * 4-069-133-01 | CUSHION (UPPER) (ASSY) |        | 163     | * 4-396-077-01 | JOINT                               |        |
| 154     | * 4-070-492-02 | INDIVIDUAL CARTON      |        | 164     | * 4-072-155-01 | REINFORCEMENT, FOOT                 |        |
| 155     | * 3-704-066-01 | HANDLE (B)             |        | 165     | △ 1-558-527-11 | CORD SET, POWER (13A/125V) (U/C)    |        |
| 156     | 4-076-854-01   | OPERATING INSTRUCTIONS |        |         | △ 1-590-151-11 | CORD SET, POWER (10A/250V) (AEP, E) |        |
| 157     | * 4-069-134-01 | CUSHION (LOWER) (ASSY) |        | 166     | 1-543-653-11   | CORE ASSY, BEAD(DIVISION TYPE)      |        |
| 158     | * 4-065-581-01 | TRAY                   |        | 167     | * 4-065-463-01 | BRACKET, FOOT                       |        |
| 159     | * 3-674-673-01 | STOPPER (A)            |        | 168     | 2-990-242-01   | HOLDER (B), PLUG                    |        |
| 160     | * 4-070-419-01 | CUSHION (A)            |        | 169     | 1-750-686-11   | CONNECTOR, CONVERSION (3P-2P)       |        |
|         |                |                        |        | 170     | 1-475-089-11   | REMOTE COMMANDER (RM-921)           |        |

6-5. MB-514

- : 7-688-005-02 W5
- ▲: 7-682-948-09 +PSW3x8
- ▼: 7-682-961-09 +PSW4x8
- : 7-682-973-49 +PSW5x16
- ◆: 7-623-213-22 SW6
- ★: 7-688-006-12 W6
- : 7-624-197-71 C20
- △: 7-688-000-26 W20
- ▽: 7-688-000-25 W16
- : 7-624-197-31 C16
- ◇: 7-684-026-04 N6



| Ref.No. | Part No.       | Description              | Remark | Ref.No. | Part No.       | Description        | Remark |
|---------|----------------|--------------------------|--------|---------|----------------|--------------------|--------|
| 1       | * X-4035-976-1 | BRACKET ASSY, MOUNTING   | 2-11   | 11      | * 4-066-361-01 | BRACKET, LOCK      |        |
| 2       | * 4-066-350-01 | SHAFT (B), FIXED         |        | 12      | X-4035-975-1   | HANDLE ASSY        |        |
| 3       | * 4-066-365-01 | GUARD, EDGE              |        | 13      | * X-4035-977-2 | BRACKET ASSY, WALL |        |
| 4       | 3-618-078-00   | RING, RETAINING, CE TYPE |        | 14      | 4-066-358-02   | KNOB               |        |
| 5       | 3-638-493-02   | RING, RETAINING, CE      |        |         |                |                    |        |
| 6       | * 4-066-363-01 | DAMPER, GAS              |        |         |                |                    |        |
| 7       | 4-066-364-01   | ROPE, WIRE               |        |         |                |                    |        |
| 8       | * 4-066-351-01 | SPRING, COMPRESSION      |        |         |                |                    |        |
| 9       | * 4-066-349-02 | SHAFT (A), FIXED         |        |         |                |                    |        |
| 10      | * 4-066-362-01 | PIN                      |        |         |                |                    |        |

## Section 7

### Electrical Parts List

#### NOTE :

The components identified marked  $\triangle$  are critical for safety.  
Replace only with the part number specified.

Les composants identifiés par la marque  $\triangle$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

#### RESISTORS

- All resistors are in ohms.
- F: nonflammable
- METAL: Metal-film resistor
- METAL OXIDE: Metal oxide-film resistor

| Ref.No. | Part No.       | Description        | Remark      |     |       |  | Ref.No. | Part No.          | Description             | Remark       |     |     |  |
|---------|----------------|--------------------|-------------|-----|-------|--|---------|-------------------|-------------------------|--------------|-----|-----|--|
|         | * A-1272-048-A | AF MOUNT           | *****       |     |       |  |         | * A-1136-120-A    | B COMPL (PFM-500A3W)    |              |     |     |  |
|         |                |                    |             |     |       |  |         | * A-1136-118-A    | B COMPL (PFM-510A2W)    | *****        |     |     |  |
|         |                | <CAPACITOR>        |             |     |       |  |         | * 1-526-652-21    | SOCKET, IC (DP) 8P      |              |     |     |  |
|         |                |                    |             |     |       |  |         | 4-382-854-01      | SCREW (M3X8), P, SW (+) |              |     |     |  |
|         |                |                    |             |     |       |  |         | <HOLDER, BATTERY> |                         |              |     |     |  |
|         |                |                    |             |     |       |  | BAT500  | 1-550-104-11      | HOLDER, BATTERY         |              |     |     |  |
|         |                |                    |             |     |       |  |         | <CAPACITOR>       |                         |              |     |     |  |
| C6501   | 1-126-392-11   | ELECT CHIP         | 100 $\mu$ F | 20% | 6.3V  |  | C1      | 1-126-934-11      | ELECT                   | 220 $\mu$ F  | 20% | 16V |  |
| C6502   | 1-164-004-11   | CERAMIC CHIP       | 0.1 $\mu$ F | 10% | 25V   |  | C2      | 1-126-934-11      | ELECT                   | 220 $\mu$ F  | 20% | 16V |  |
| C6503   | 1-164-004-11   | CERAMIC CHIP       | 0.1 $\mu$ F | 10% | 25V   |  | C3      | 1-126-934-11      | ELECT                   | 220 $\mu$ F  | 20% | 16V |  |
|         |                | <CONNECTOR>        |             |     |       |  | C4      | 1-126-934-11      | ELECT                   | 220 $\mu$ F  | 20% | 16V |  |
|         |                |                    |             |     |       |  | C6      | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| CN6501  | * 1-564-520-11 | PLUG, CONNECTOR 5P |             |     |       |  | C7      | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
|         |                | <IC>               |             |     |       |  | C8      | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| IC6501  | 8-759-032-59   | IC MC74HC595AF-T2  |             |     |       |  | C9      | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| IC6502  | 8-759-032-59   | IC MC74HC595AF-T2  |             |     |       |  | C10     | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| IC6503  | 8-719-045-58   | DIODE LB-602MA2    |             |     |       |  | C12     | 1-126-934-11      | ELECT                   | 220 $\mu$ F  | 20% | 16V |  |
|         |                | <RESISTOR>         |             |     |       |  | C13     | 1-104-664-11      | ELECT                   | 47 $\mu$ F   | 20% | 16V |  |
| R6501   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C14     | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| R6502   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C15     | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| R6503   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C16     | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| R6504   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C18     | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| R6505   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C19     | 1-126-934-11      | ELECT                   | 220 $\mu$ F  | 20% | 16V |  |
| R6506   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C20     | 1-126-934-11      | ELECT                   | 220 $\mu$ F  | 20% | 16V |  |
| R6507   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C21     | 1-126-934-11      | ELECT                   | 220 $\mu$ F  | 20% | 16V |  |
| R6508   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C23     | 1-126-934-11      | ELECT                   | 220 $\mu$ F  | 20% | 16V |  |
| R6509   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C24     | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| R6510   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C25     | 1-126-934-11      | ELECT                   | 220 $\mu$ F  | 20% | 16V |  |
| R6511   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C26     | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| R6512   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C27     | 1-126-934-11      | ELECT                   | 220 $\mu$ F  | 20% | 16V |  |
| R6513   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C100    | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| R6514   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C101    | 1-164-004-11      | CERAMIC CHIP            | 0.1 $\mu$ F  | 10% | 25V |  |
| R6515   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C102    | 1-163-021-91      | CERAMIC CHIP            | 0.01 $\mu$ F | 10% | 50V |  |
| R6516   | 1-216-041-00   | RES-CHIP           | 470         | 5%  | 1/10W |  | C103    | 1-163-021-91      | CERAMIC CHIP            | 0.01 $\mu$ F | 10% | 50V |  |
| *****   |                |                    |             |     |       |  | C104    | 1-115-566-11      | CERAMIC CHIP            | 4.7 $\mu$ F  | 10% | 10V |  |
|         |                |                    |             |     |       |  | C105    | 1-115-566-11      | CERAMIC CHIP            | 4.7 $\mu$ F  | 10% | 10V |  |
|         |                |                    |             |     |       |  | C106    | 1-115-566-11      | CERAMIC CHIP            | 4.7 $\mu$ F  | 10% | 10V |  |

| Ref.No. | Part No.     | Description  |        |     |     | Remark | Ref.No. | Part No.     | Description  |          |     |     | Remark |
|---------|--------------|--------------|--------|-----|-----|--------|---------|--------------|--------------|----------|-----|-----|--------|
| C107    | 1-115-566-11 | CERAMIC CHIP | 4.7μF  | 10% | 10V |        | C258    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C108    | 1-107-713-11 | ELECT        | 4.7μF  | 20% | 50V |        | C259    | 1-135-216-11 | TANTAL. CHIP | 10μF     | 20% | 10V |        |
| C109    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C260    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C110    | 1-126-964-11 | ELECT        | 10μF   | 20% | 50V |        | C262    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C111    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C264    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C113    | 1-104-664-11 | ELECT        | 47μF   | 20% | 10V |        | C265    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C114    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C266    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C115    | 1-163-251-11 | CERAMIC CHIP | 100PF  | 5%  | 50V |        | C267    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C116    | 1-163-259-91 | CERAMIC CHIP | 220PF  | 5%  | 50V |        | C268    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C117    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C269    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C201    | 1-163-021-91 | CERAMIC CHIP | 0.01μF | 10% | 50V |        | C270    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C204    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C271    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C205    | 1-126-965-11 | ELECT        | 22μF   | 20% | 50V |        | C272    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C206    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C273    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C207    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C274    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C208    | 1-163-021-91 | CERAMIC CHIP | 0.01μF | 10% | 50V |        | C275    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C209    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C276    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C210    | 1-163-021-91 | CERAMIC CHIP | 0.01μF | 10% | 50V |        | C277    | 1-104-664-11 | ELECT        | 47μF     | 20% | 16V |        |
| C211    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C278    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C212    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C279    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C213    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C280    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C214    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C281    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C215    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C282    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C216    | 1-163-021-91 | CERAMIC CHIP | 0.01μF | 10% | 50V |        | C283    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C217    | 1-164-489-11 | CERAMIC CHIP | 0.22μF | 10% | 16V |        | C284    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C218    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C285    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C219    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C286    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C220    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C287    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C221    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C288    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C222    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C289    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C223    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C290    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C224    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C291    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C225    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C292    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C226    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C293    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C227    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C294    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C228    | 1-126-965-11 | ELECT        | 22μF   | 20% | 50V |        | C295    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C229    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C297    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C230    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C298    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C231    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C299    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C232    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C300    | 1-104-664-11 | ELECT        | 47μF     | 20% | 16V |        |
| C233    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C304    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C234    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C305    | 1-163-243-11 | CERAMIC CHIP | 47PF     | 5%  | 50V |        |
| C235    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C312    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C236    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C313    | 1-163-113-00 | CERAMIC CHIP | 68PF     | 5%  | 50V |        |
| C237    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C314    | 1-163-113-00 | CERAMIC CHIP | 68PF     | 5%  | 50V |        |
| C238    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C315    | 1-163-113-00 | CERAMIC CHIP | 68PF     | 5%  | 50V |        |
| C239    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C317    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C240    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C318    | 1-164-161-11 | CERAMIC CHIP | 0.0022μF | 10% | 50V |        |
| C241    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C319    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C242    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C320    | 1-126-960-11 | ELECT        | 1μF      | 20% | 50V |        |
| C243    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C500    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C244    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C501    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C245    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C502    | 1-126-934-11 | ELECT        | 220μF    | 20% | 16V |        |
| C246    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C503    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C247    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C504    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C248    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C506    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C249    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C507    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C250    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C508    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C251    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C509    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C252    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C510    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C253    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C511    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C254    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C512    | 1-104-664-11 | ELECT        | 47μF     | 20% | 16V |        |
| C255    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C513    | 1-104-664-11 | ELECT        | 47μF     | 20% | 16V |        |
| C256    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C514    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |
| C257    | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |        | C515    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10% | 25V |        |



| Ref.No. | Part No.     | Description  | Remark  |        |      | Ref.No. | Part No.     | Description  | Remark   |        |     |
|---------|--------------|--------------|---------|--------|------|---------|--------------|--------------|----------|--------|-----|
| C516    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C801    | 1-163-035-00 | CERAMIC CHIP | 0.047μF  |        | 50V |
| C517    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C802    | 1-126-964-11 | ELECT        | 10μF     | 20%    | 50V |
| C518    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C803    | 1-163-009-11 | CERAMIC CHIP | 0.001μF  | 10%    | 50V |
| C519    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C804    | 1-126-964-11 | ELECT        | 10μF     | 20%    | 50V |
| C520    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C805    | 1-163-009-11 | CERAMIC CHIP | 0.001μF  | 10%    | 50V |
| C521    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C806    | 1-163-017-00 | CERAMIC CHIP | 0.0047μF | 10%    | 50V |
| C522    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C807    | 1-163-017-00 | CERAMIC CHIP | 0.0047μF | 10%    | 50V |
| C523    | 1-104-664-11 | ELECT        | 47μF    | 20%    | 16V  | C808    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C524    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C809    | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C525    | 1-104-664-11 | ELECT        | 47μF    | 20%    | 16V  | C810    | 1-126-964-11 | ELECT        | 10μF     | 20%    | 50V |
| C526    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C811    | 1-126-964-11 | ELECT        | 10μF     | 20%    | 50V |
| C527    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C812    | 1-126-960-11 | ELECT        | 1μF      | 20%    | 50V |
| C528    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C813    | 1-104-664-11 | ELECT        | 47μF     | 20%    | 16V |
| C529    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C814    | 1-126-960-11 | ELECT        | 1μF      | 20%    | 50V |
| C530    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C815    | 1-126-960-11 | ELECT        | 1μF      | 20%    | 50V |
| C531    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C816    | 1-163-809-11 | CERAMIC CHIP | 0.047μF  | 10%    | 25V |
| C532    | 1-163-227-11 | CERAMIC CHIP | 10PF    | 0.50PF | 50V  | C817    | 1-126-960-11 | ELECT        | 1μF      | 20%    | 50V |
| C533    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C818    | 1-126-963-11 | ELECT        | 4.7μF    | 20%    | 50V |
| C534    | 1-163-227-11 | CERAMIC CHIP | 10PF    | 0.50PF | 50V  | C819    | 1-126-964-11 | ELECT        | 10μF     | 20%    | 50V |
| C535    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C820    | 1-126-964-11 | ELECT        | 10μF     | 20%    | 50V |
| C536    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C821    | 1-126-964-11 | ELECT        | 10μF     | 20%    | 50V |
| C537    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C822    | 1-126-964-11 | ELECT        | 10μF     | 20%    | 50V |
| C538    | 1-163-133-00 | CERAMIC CHIP | 470PF   | 5%     | 50V  | C823    | 1-126-953-11 | ELECT        | 2200μF   | 20%    | 35V |
| C539    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C824    | 1-107-909-11 | ELECT        | 47μF     | 20%    | 35V |
| C540    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C825    | 1-126-964-11 | ELECT        | 10μF     | 20%    | 50V |
| C541    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C826    | 1-163-133-00 | CERAMIC CHIP | 470PF    | 5%     | 50V |
| C542    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C827    | 1-126-964-11 | ELECT        | 10μF     | 20%    | 50V |
| C543    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C828    | 1-163-133-00 | CERAMIC CHIP | 470PF    | 5%     | 50V |
| C544    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C829    | 1-126-947-11 | ELECT        | 47μF     | 20%    | 35V |
| C545    | 1-125-838-91 | CERAMIC CHIP | 2.2μF   | 10%    | 6.3V | C830    | 1-126-947-11 | ELECT        | 47μF     | 20%    | 35V |
| C546    | 1-125-838-91 | CERAMIC CHIP | 2.2μF   | 10%    | 6.3V | C831    | 1-126-947-11 | ELECT        | 47μF     | 20%    | 35V |
| C547    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C832    | 1-126-964-11 | ELECT        | 10μF     | 20%    | 50V |
| C548    | 1-126-934-11 | ELECT        | 220μF   | 20%    | 16V  | C833    | 1-126-953-11 | ELECT        | 2200μF   | 20%    | 35V |
| C549    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C834    | 1-126-953-11 | ELECT        | 2200μF   | 20%    | 35V |
| C550    | 1-163-253-11 | CERAMIC CHIP | 120PF   | 5%     | 50V  | C835    | 1-136-165-00 | MYLAR        | 0.1μF    | 5%     | 50V |
| C551    | 1-163-253-11 | CERAMIC CHIP | 120PF   | 5%     | 50V  | C836    | 1-136-165-00 | MYLAR        | 0.1μF    | 5%     | 50V |
| C552    | 1-163-253-11 | CERAMIC CHIP | 120PF   | 5%     | 50V  | C837    | 1-104-664-11 | ELECT        | 47μF     | 20%    | 16V |
| C553    | 1-163-253-11 | CERAMIC CHIP | 120PF   | 5%     | 50V  | C838    | 1-104-664-11 | ELECT        | 47μF     | 20%    | 16V |
| C554    | 1-163-275-11 | CERAMIC CHIP | 0.001μF | 5%     | 50V  | C1000   | 1-163-229-11 | CERAMIC CHIP | 12PF     | 5%     | 50V |
| C555    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1001   | 1-163-089-00 | CERAMIC CHIP | 6PF      | 0.50PF | 50V |
| C556    | 1-163-253-11 | CERAMIC CHIP | 120PF   | 5%     | 50V  | C1002   | 1-107-701-11 | ELECT        | 47μF     | 20%    | 16V |
| C700    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1003   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C701    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1004   | 1-107-701-11 | ELECT        | 47μF     | 20%    | 16V |
| C702    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1005   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C703    | 1-104-664-11 | ELECT        | 47μF    | 20%    | 16V  | C1006   | 1-107-701-11 | ELECT        | 47μF     | 20%    | 16V |
| C704    | 1-126-933-11 | ELECT        | 100μF   | 20%    | 16V  | C1007   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C705    | 1-104-665-11 | ELECT        | 100μF   | 20%    | 10V  | C1008   | 1-104-664-11 | ELECT        | 47μF     | 20%    | 25V |
| C706    | 1-104-665-11 | ELECT        | 100μF   | 20%    | 10V  | C1009   | 1-104-664-11 | ELECT        | 47μF     | 20%    | 16V |
| C707    | 1-126-933-11 | ELECT        | 100μF   | 20%    | 16V  | C1010   | 1-104-664-11 | ELECT        | 47μF     | 20%    | 16V |
| C708    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1011   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C709    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1012   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C710    | 1-104-664-11 | ELECT        | 47μF    | 20%    | 16V  | C1013   | 1-104-664-11 | ELECT        | 47μF     | 20%    | 25V |
| C711    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1014   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C712    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1015   | 1-163-021-91 | CERAMIC CHIP | 0.01μF   | 10%    | 50V |
| C713    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1016   | 1-126-960-11 | ELECT        | 1μF      | 20%    | 50V |
| C714    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1017   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C715    | 1-126-965-11 | ELECT        | 22μF    | 20%    | 50V  | C1018   | 1-104-664-11 | ELECT        | 47μF     | 20%    | 25V |
| C716    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1019   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C717    | 1-126-965-11 | ELECT        | 22μF    | 20%    | 50V  | C1020   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C718    | 1-126-968-11 | ELECT        | 100μF   | 20%    | 50V  | C1021   | 1-104-664-11 | ELECT        | 47μF     | 20%    | 16V |
| C720    | 1-104-664-11 | ELECT        | 47μF    | 20%    | 16V  | C1022   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C721    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1023   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |
| C723    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1024   | 1-126-963-11 | ELECT        | 4.7μF    | 20%    | 50V |
| C724    | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C1025   | 1-104-664-11 | ELECT        | 47μF     | 20%    | 16V |
| C800    | 1-104-664-11 | ELECT        | 47μF    | 20%    | 16V  | C1026   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%    | 25V |

| Ref.No. | Part No.     | Description  | Remark |     |     |  | Ref.No. | Part No.     | Description  | Remark   |       |     |  |
|---------|--------------|--------------|--------|-----|-----|--|---------|--------------|--------------|----------|-------|-----|--|
| C1027   | 1-107-716-11 | ELECT        | 33μF   | 20% | 16V |  | C1093   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1028   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1094   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1029   | 1-107-716-11 | ELECT        | 33μF   | 20% | 16V |  | C1095   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1030   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1096   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1031   | 1-126-964-11 | ELECT        | 10μF   | 20% | 50V |  | C1097   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1032   | 1-126-964-11 | ELECT        | 10μF   | 20% | 50V |  | C1098   | 1-163-809-11 | CERAMIC CHIP | 0.047μF  | 10%   | 25V |  |
| C1033   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1099   | 1-107-716-11 | ELECT        | 33μF     | 20%   | 16V |  |
| C1034   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V |  | C1100   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1035   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1101   | 1-163-809-11 | CERAMIC CHIP | 0.047μF  | 10%   | 25V |  |
| C1036   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1102   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1037   | 1-109-982-11 | CERAMIC CHIP | 1μF    | 10% | 10V |  | C1103   | 1-163-809-11 | CERAMIC CHIP | 0.047μF  | 10%   | 25V |  |
| C1038   | 1-126-934-11 | ELECT        | 220μF  | 20% | 16V |  | C1104   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1039   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1105   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1040   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1106   | 1-163-253-11 | CERAMIC CHIP | 120PF    | 5%    | 50V |  |
| C1041   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1107   | 1-163-235-11 | CERAMIC CHIP | 22PF     | 5%    | 50V |  |
| C1042   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1108   | 1-107-716-11 | ELECT        | 33μF     | 20%   | 16V |  |
| C1043   | 1-126-960-11 | ELECT        | 1μF    | 20% | 50V |  | C1109   | 1-126-960-11 | ELECT        | 1μF      | 20%   | 50V |  |
| C1044   | 1-126-934-11 | ELECT        | 220μF  | 20% | 16V |  | C1110   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1045   | 1-164-346-11 | CERAMIC CHIP | 1μF    |     | 16V |  | C1111   | 1-164-162-11 | CERAMIC CHIP | 100PF    | 2.00% | 50V |  |
| C1046   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1112   | 1-126-960-11 | ELECT        | 1μF      | 20%   | 50V |  |
| C1047   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1113   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1048   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1115   | 1-104-664-11 | ELECT        | 47μF     | 20%   | 16V |  |
| C1049   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V |  | C1116   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1050   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V |  | C1117   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1051   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V |  | C1118   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1052   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V |  | C1119   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1053   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1120   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1055   | 1-163-251-11 | CERAMIC CHIP | 100PF  | 5%  | 50V |  | C1121   | 1-107-716-11 | ELECT        | 33μF     | 20%   | 16V |  |
| C1056   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1122   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1057   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1123   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1058   | 1-163-102-00 | CERAMIC CHIP | 24PF   | 5%  | 50V |  | C1124   | 1-104-664-11 | ELECT        | 47μF     | 20%   | 16V |  |
| C1059   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1125   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1060   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1126   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1061   | 1-163-102-00 | CERAMIC CHIP | 24PF   | 5%  | 50V |  | C1127   | 1-164-182-11 | CERAMIC CHIP | 0.0033μF | 10%   | 50V |  |
| C1062   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1128   | 1-164-344-11 | CERAMIC CHIP | 0.068μF  | 10%   | 25V |  |
| C1063   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1129   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1064   | 1-104-665-11 | ELECT        | 100μF  | 20% | 10V |  | C1130   | 1-163-259-91 | CERAMIC CHIP | 220PF    | 5%    | 50V |  |
| C1065   | 1-163-249-11 | CERAMIC CHIP | 82PF   | 5%  | 50V |  | C1131   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1066   | 1-163-231-11 | CERAMIC CHIP | 15PF   | 5%  | 50V |  | C1132   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1067   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1133   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1068   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V |  | C1134   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1069   | 1-164-346-11 | CERAMIC CHIP | 1μF    |     | 16V |  | C1135   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1070   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1136   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1071   | 1-107-698-11 | ELECT        | 10μF   | 20% | 25V |  | C1137   | 1-104-664-11 | ELECT        | 47μF     | 20%   | 10V |  |
| C1072   | 1-163-113-00 | CERAMIC CHIP | 68PF   | 5%  | 50V |  | C1138   | 1-104-664-11 | ELECT        | 47μF     | 20%   | 16V |  |
| C1073   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1139   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1074   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1140   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1075   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1141   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1076   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1142   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1077   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1143   | 1-104-664-11 | ELECT        | 47μF     | 20%   | 16V |  |
| C1078   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1144   | 1-104-664-11 | ELECT        | 47μF     | 20%   | 16V |  |
| C1079   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V |  | C1145   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1080   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1146   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1081   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1147   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1082   | 1-164-346-11 | CERAMIC CHIP | 1μF    |     | 16V |  | C1148   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1083   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1149   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1084   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1150   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1085   | 1-163-021-91 | CERAMIC CHIP | 0.01μF | 10% | 50V |  | C1151   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1086   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1152   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1087   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1153   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1088   | 1-163-021-91 | CERAMIC CHIP | 0.01μF | 10% | 50V |  | C1154   | 1-104-664-11 | ELECT        | 47μF     | 20%   | 16V |  |
| C1089   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1155   | 1-126-964-11 | ELECT        | 10μF     | 20%   | 50V |  |
| C1090   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1156   | 1-126-964-11 | ELECT        | 10μF     | 20%   | 50V |  |
| C1091   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1157   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |
| C1092   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V |  | C1158   | 1-164-004-11 | CERAMIC CHIP | 0.1μF    | 10%   | 25V |  |

| Ref.No. | Part No.     | Description  | Remark |     |     | Ref.No. | Part No.     | Description  | Remark  |        |     |
|---------|--------------|--------------|--------|-----|-----|---------|--------------|--------------|---------|--------|-----|
| C1159   | 1-164-004-11 | CERAMIC CHIP | 0.1μF  | 10% | 25V | C1233   | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10%    | 50V |
| C1160   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V | C1234   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V |
| C1161   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1235   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V |
| C1162   | 1-126-964-11 | ELECT        | 10μF   | 20% | 50V | C1236   | 1-104-664-11 | ELECT        | 47μF    | 20%    | 16V |
| C1164   | 1-104-665-11 | ELECT        | 100μF  | 20% | 10V | C1237   | 1-104-664-11 | ELECT        | 47μF    | 20%    | 16V |
| C1165   | 1-126-964-11 | ELECT        | 10μF   | 20% | 50V | C1238   | 1-104-664-11 | ELECT        | 47μF    | 20%    | 16V |
| C1168   | 1-126-964-11 | ELECT        | 10μF   | 20% | 50V | C1239   | 1-126-964-11 | ELECT        | 10μF    | 20%    | 50V |
| C1169   | 1-163-021-91 | CERAMIC CHIP | 0.01μF | 10% | 50V | C1240   | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V |
| C1170   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V | C1241   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V |
| C1171   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1242   | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V |
| C1172   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1243   | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V |
| C1173   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1244   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V |
| C1174   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V | C1245   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V |
| C1175   | 1-163-243-11 | CERAMIC CHIP | 47PF   | 5%  | 50V | C1246   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V |
| C1176   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1247   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V |
| C1179   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1248   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V |
| C1183   | 1-126-964-11 | ELECT        | 10μF   | 20% | 50V | C1249   | 1-126-964-11 | ELECT        | 10μF    | 20%    | 50V |
| C1184   | 1-104-665-11 | ELECT        | 100μF  | 20% | 10V | C1250   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V |
| C1185   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1251   | 1-104-664-11 | ELECT        | 47μF    | 20%    | 16V |
| C1186   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V | C1252   | 1-104-664-11 | ELECT        | 47μF    | 20%    | 16V |
| C1187   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V | C1261   | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V |
| C1189   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V | C1262   | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V |
| C1190   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1263   | 1-163-243-11 | CERAMIC CHIP | 47PF    | 5%     | 50V |
| C1191   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V | C1264   | 1-163-243-11 | CERAMIC CHIP | 47PF    | 5%     | 50V |
| C1192   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1265   | 1-163-243-11 | CERAMIC CHIP | 47PF    | 5%     | 50V |
| C1193   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1266   | 1-163-243-11 | CERAMIC CHIP | 47PF    | 5%     | 50V |
| C1194   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1267   | 1-163-243-11 | CERAMIC CHIP | 47PF    | 5%     | 50V |
| C1195   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1268   | 1-163-243-11 | CERAMIC CHIP | 47PF    | 5%     | 50V |
| C1196   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1269   | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V |
| C1197   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1270   | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V |
| C1198   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1271   | 1-163-235-11 | CERAMIC CHIP | 22PF    | 5%     | 50V |
| C1199   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C1278   | 1-104-665-11 | ELECT        | 100μF   | 20%    | 10V |
| C1200   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2000   | 1-126-963-11 | ELECT        | 4.7μF   | 20%    | 50V |
| C1201   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2001   | 1-126-963-11 | ELECT        | 4.7μF   | 20%    | 50V |
| C1202   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2002   | 1-126-963-11 | ELECT        | 4.7μF   | 20%    | 50V |
| C1203   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2003   | 1-126-963-11 | ELECT        | 4.7μF   | 20%    | 50V |
| C1204   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2004   | 1-126-963-11 | ELECT        | 4.7μF   | 20%    | 50V |
| C1205   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2005   | 1-126-963-11 | ELECT        | 4.7μF   | 20%    | 50V |
| C1206   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2100   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1207   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2101   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1208   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2102   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1209   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2103   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1210   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2104   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1211   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2105   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1212   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2106   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1213   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2107   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1214   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2108   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1215   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2109   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1216   | 1-104-665-11 | ELECT        | 100μF  | 20% | 10V | C2110   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1217   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2111   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1218   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2112   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V |
| C1219   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2200   | 1-163-227-11 | CERAMIC CHIP | 10PF    | 0.50PF | 50V |
| C1220   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2201   | 1-163-227-11 | CERAMIC CHIP | 10PF    | 0.50PF | 50V |
| C1221   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2202   | 1-163-227-11 | CERAMIC CHIP | 10PF    | 0.50PF | 50V |
| C1222   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2203   | 1-163-227-11 | CERAMIC CHIP | 10PF    | 0.50PF | 50V |
| C1223   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2204   | 1-163-227-11 | CERAMIC CHIP | 10PF    | 0.50PF | 50V |
| C1224   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2300   | 1-163-031-11 | CERAMIC CHIP | 0.01μF  |        | 50V |
| C1225   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V | C2301   | 1-163-031-11 | CERAMIC CHIP | 0.01μF  |        | 50V |
| C1226   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2302   | 1-163-031-11 | CERAMIC CHIP | 0.01μF  |        | 50V |
| C1227   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2303   | 1-163-031-11 | CERAMIC CHIP | 0.01μF  |        | 50V |
| C1228   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2304   | 1-163-031-11 | CERAMIC CHIP | 0.01μF  |        | 50V |
| C1229   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V | C2305   | 1-163-031-11 | CERAMIC CHIP | 0.01μF  |        | 50V |
| C1230   | 1-126-963-11 | ELECT        | 4.7μF  | 20% | 50V | C2306   | 1-163-031-11 | CERAMIC CHIP | 0.01μF  |        | 50V |
| C1231   | 1-104-664-11 | ELECT        | 47μF   | 20% | 16V | C2400   | 1-163-025-11 | CERAMIC CHIP | 0.001μF |        | 50V |
| C1232   | 1-163-038-91 | CERAMIC CHIP | 0.1μF  |     | 25V | C2401   | 1-163-025-11 | CERAMIC CHIP | 0.001μF |        | 50V |

| Ref.No. | Part No.     | Description  | Remark  |        |      | Ref.No.     | Part No.       | Description                                 | Remark   |        |     |
|---------|--------------|--------------|---------|--------|------|-------------|----------------|---------------------------------------------|----------|--------|-----|
| C2402   | 1-163-025-11 | CERAMIC CHIP | 0.001μF | 50V    |      | C4054       | 1-163-038-91   | CERAMIC CHIP                                | 0.1μF    | 25V    |     |
| C2403   | 1-163-025-11 | CERAMIC CHIP | 0.001μF | 50V    |      | C4055       | 1-163-253-11   | CERAMIC CHIP                                | 120PF    | 5%     | 50V |
| C2404   | 1-163-025-11 | CERAMIC CHIP | 0.001μF | 50V    |      | C4056       | 1-163-031-11   | CERAMIC CHIP                                | 0.01μF   |        | 50V |
| C2405   | 1-163-025-11 | CERAMIC CHIP | 0.001μF | 50V    |      | C4057       | 1-163-031-11   | CERAMIC CHIP                                | 0.01μF   |        | 50V |
| C2500   | 1-163-235-11 | CERAMIC CHIP | 22PF    | 2.00%  | 50V  | C4058       | 1-163-137-00   | CERAMIC CHIP                                | 680PF    | 5%     | 50V |
| C2600   | 1-163-091-00 | CERAMIC CHIP | 8PF     | 0.25PF | 50V  | C4059       | 1-163-263-11   | CERAMIC CHIP                                | 330PF    | 5%     | 50V |
| C2601   | 1-163-091-00 | CERAMIC CHIP | 8PF     | 0.25PF | 50V  | C4060       | 1-163-137-00   | CERAMIC CHIP                                | 680PF    | 5%     | 50V |
| C2602   | 1-163-091-00 | CERAMIC CHIP | 8PF     | 0.25PF | 50V  | C4061       | 1-163-092-00   | CERAMIC CHIP                                | 9PF      | 0.25PF | 50V |
| C2700   | 1-126-967-11 | ELECT        | 47μF    | 20%    | 50V  | C4062       | 1-163-031-11   | CERAMIC CHIP                                | 0.01μF   |        | 50V |
| C2701   | 1-165-319-11 | CERAMIC CHIP | 0.1μF   |        | 50V  | C4063       | 1-163-227-11   | CERAMIC CHIP                                | 10PF     | 0.50PF | 50V |
| C2702   | 1-163-031-11 | CERAMIC CHIP | 0.01μF  |        | 50V  | C4064       | 1-104-664-11   | ELECT                                       | 47μF     | 20%    | 16V |
| C4000   | 1-126-964-11 | ELECT        | 10μF    | 20%    | 50V  | C4065       | 1-163-038-91   | CERAMIC CHIP                                | 0.1μF    |        | 25V |
| C4001   | 1-126-934-11 | ELECT        | 220μF   | 20%    | 10V  | C4066       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4002   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4067       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4003   | 1-163-275-11 | CERAMIC CHIP | 0.001μF | 5%     | 50V  | C4068       | 1-107-713-11   | ELECT                                       | 4.7μF    | 20%    | 50V |
| C4004   | 1-126-964-11 | ELECT        | 10μF    | 20%    | 50V  | C4069       | 1-104-664-11   | ELECT                                       | 47μF     | 20%    | 16V |
| C4005   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4070       | 1-163-275-11   | CERAMIC CHIP                                | 0.001μF  | 5%     | 50V |
| C4006   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4071       | 1-126-961-11   | ELECT                                       | 2.2μF    | 20%    | 50V |
| C4007   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4072       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4008   | 1-163-031-11 | CERAMIC CHIP | 0.01μF  |        | 50V  | C4073       | 1-163-038-91   | CERAMIC CHIP                                | 0.1μF    |        | 25V |
| C4009   | 1-126-964-11 | ELECT        | 10μF    | 20%    | 50V  | C4074       | 1-126-960-11   | ELECT                                       | 1μF      | 20%    | 50V |
| C4010   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4075       | 1-104-664-11   | ELECT                                       | 47μF     | 20%    | 16V |
| C4011   | 1-126-964-11 | ELECT        | 10μF    | 20%    | 50V  | C4076       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4012   | 1-126-964-11 | ELECT        | 10μF    | 20%    | 50V  | C4077       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4013   | 1-126-964-11 | ELECT        | 10μF    | 20%    | 50V  | C4078       | 1-163-227-11   | CERAMIC CHIP                                | 10PF     | 0.50PF | 50V |
| C4014   | 1-163-031-11 | CERAMIC CHIP | 0.01μF  |        | 50V  | C4079       | 1-104-664-11   | ELECT                                       | 47μF     | 20%    | 16V |
| C4015   | 1-126-934-11 | ELECT        | 220μF   | 20%    | 10V  | C4080       | 1-104-664-11   | ELECT                                       | 47μF     | 20%    | 16V |
| C4016   | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C4081       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4017   | 1-164-489-11 | CERAMIC CHIP | 0.22μF  | 10%    | 16V  | C4082       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4018   | 1-163-275-11 | CERAMIC CHIP | 0.001μF | 5%     | 50V  | C4083       | 1-163-021-91   | CERAMIC CHIP                                | 0.01μF   | 10%    | 50V |
| C4019   | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10%    | 50V  | C4084       | 1-163-021-91   | CERAMIC CHIP                                | 0.01μF   | 10%    | 50V |
| C4020   | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10%    | 50V  | C4085       | 1-163-021-91   | CERAMIC CHIP                                | 0.01μF   | 10%    | 50V |
| C4021   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4086       | 1-126-963-11   | ELECT                                       | 4.7μF    | 20%    | 50V |
| C4022   | 1-126-934-11 | ELECT        | 220μF   | 20%    | 10V  | C4088       | 1-126-959-11   | ELECT                                       | 0.47μF   | 20%    | 50V |
| C4023   | 1-126-934-11 | ELECT        | 220μF   | 20%    | 10V  | C4089       | 1-163-021-91   | CERAMIC CHIP                                | 0.01μF   | 10%    | 50V |
| C4024   | 1-163-113-00 | CERAMIC CHIP | 68PF    | 5%     | 50V  | C4090       | 1-163-038-91   | CERAMIC CHIP                                | 0.1μF    |        | 25V |
| C4025   | 1-164-004-11 | CERAMIC CHIP | 0.1μF   | 10%    | 25V  | C4091       | 1-163-038-91   | CERAMIC CHIP                                | 0.1μF    |        | 25V |
| C4026   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4092       | 1-163-038-91   | CERAMIC CHIP                                | 0.1μF    |        | 25V |
| C4027   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4093       | 1-163-021-91   | CERAMIC CHIP                                | 0.01μF   | 10%    | 50V |
| C4028   | 1-163-275-11 | CERAMIC CHIP | 0.001μF | 5%     | 50V  | C4094       | 1-163-021-91   | CERAMIC CHIP                                | 0.01μF   | 10%    | 50V |
| C4029   | 1-163-233-11 | CERAMIC CHIP | 18PF    | 5%     | 50V  | C4095       | 1-163-259-91   | CERAMIC CHIP                                | 220PF    | 5%     | 50V |
| C4030   | 1-163-235-11 | CERAMIC CHIP | 22PF    | 5%     | 50V  | C4096       | 1-126-963-11   | ELECT                                       | 4.7μF    | 20%    | 50V |
| C4031   | 1-124-442-00 | ELECT        | 330μF   | 20%    | 6.3V | C4097       | 1-163-145-00   | CERAMIC CHIP                                | 0.0015μF | 5%     | 50V |
| C4032   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4098       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4033   | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10%    | 50V  | C4099       | 1-104-664-11   | ELECT                                       | 47μF     | 20%    | 16V |
| C4034   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4100       | 1-126-933-11   | ELECT                                       | 100μF    | 20%    | 16V |
| C4035   | 1-163-031-11 | CERAMIC CHIP | 0.01μF  |        | 50V  | C4103       | 1-163-137-00   | CERAMIC CHIP                                | 680PF    | 5%     | 50V |
| C4036   | 1-163-245-11 | CERAMIC CHIP | 56PF    | 5%     | 50V  | C4104       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4037   | 1-163-809-11 | CERAMIC CHIP | 0.047μF | 10%    | 25V  | C4105       | 1-163-263-11   | CERAMIC CHIP                                | 330PF    | 5%     | 50V |
| C4038   | 1-163-275-11 | CERAMIC CHIP | 0.001μF | 5%     | 50V  | C4106       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4039   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4107       | 1-163-131-00   | CERAMIC CHIP                                | 390PF    | 5%     | 50V |
| C4040   | 1-163-133-00 | CERAMIC CHIP | 470PF   | 5%     | 50V  | C4108       | 1-163-131-00   | CERAMIC CHIP                                | 390PF    | 5%     | 50V |
| C4041   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4109       | 1-104-760-11   | CERAMIC CHIP                                | 0.047μF  | 10%    | 50V |
| C4042   | 1-126-964-11 | ELECT        | 10μF    | 20%    | 50V  | C4110       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4043   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4111       | 1-104-760-11   | CERAMIC CHIP                                | 0.047μF  | 10%    | 50V |
| C4044   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | C4112       | 1-164-004-11   | CERAMIC CHIP                                | 0.1μF    | 10%    | 25V |
| C4045   | 1-163-127-00 | CERAMIC CHIP | 270PF   | 5%     | 50V  | <CONNECTOR> |                |                                             |          |        |     |
| C4046   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | CN3         | * 1-794-540-11 | HEADER, CONNECTOR(PC BOARD) 80 (PFM-500A3W) |          |        |     |
| C4047   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | CN3         | * 1-793-268-11 | HEADER, CONNECTOR(PC BOARD) 80 (PFM-510A2W) |          |        |     |
| C4048   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | CN4         | 1-506-474-11   | PIN, CONNECTOR 9P                           |          |        |     |
| C4049   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | CN5         | 1-506-468-11   | PIN, CONNECTOR 3P                           |          |        |     |
| C4050   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  | CN6         | 1-506-476-11   | PIN, CONNECTOR 11P                          |          |        |     |
| C4051   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  |             |                |                                             |          |        |     |
| C4052   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  |             |                |                                             |          |        |     |
| C4053   | 1-163-038-91 | CERAMIC CHIP | 0.1μF   |        | 25V  |             |                |                                             |          |        |     |

| Ref.No. | Part No.       | Description                  | Remark | Ref.No. | Part No.     | Description                       | Remark |
|---------|----------------|------------------------------|--------|---------|--------------|-----------------------------------|--------|
| CN7     | 1-506-468-11   | PIN, CONNECTOR 3P            |        | FB204   | 1-414-234-22 | INDUCTOR CHIP 0μH                 |        |
| CN8     | * 1-506-477-11 | PIN, CONNECTOR 12P           |        | FB205   | 1-414-234-22 | INDUCTOR CHIP 0μH                 |        |
| CN9     | 1-506-474-11   | PIN, CONNECTOR 9P            |        | FB700   | 1-410-396-41 | FERRITE 0.45μH                    |        |
| CN10    | * 1-506-475-11 | PIN, CONNECTOR 10P           |        | FB701   | 1-414-230-22 | INDUCTOR CHIP 0μH                 |        |
| CN12    | 1-506-480-11   | PIN, CONNECTOR 15P           |        |         |              |                                   |        |
| CN13    | 1-506-469-11   | PIN, CONNECTOR 4P            |        |         |              | <FILTER>                          |        |
| CN14    | 1-506-474-11   | PIN, CONNECTOR 9P            |        | FL1000  | 1-414-234-22 | INDUCTOR CHIP 0μH                 |        |
| CN15    | 1-506-473-11   | PIN, CONNECTOR 8P            |        | FL1001  | 1-414-234-22 | INDUCTOR CHIP 0μH                 |        |
| CN16    | 1-774-530-11   | CONNECTOR, BOARD TO BOARD 5P |        | FL1002  | 1-543-775-11 | FERRITE 0μH                       |        |
| CN17    | 1-774-530-11   | CONNECTOR, BOARD TO BOARD 5P |        | FL1003  | 1-543-775-11 | FERRITE 0μH                       |        |
| CN18    | 1-506-468-11   | PIN, CONNECTOR 3P            |        | FL1004  | 1-239-847-11 | FILTER, LOW PASS                  |        |
| CN19    | 1-506-468-11   | PIN, CONNECTOR 3P            |        |         |              |                                   |        |
|         |                | <DIODE>                      |        | FL1005  | 1-233-505-21 | FILTER, LOW PASS                  |        |
| D1      | 8-719-073-01   | DIODE MA111-TX               |        | FL1006  | 1-233-504-21 | FILTER, LOW PASS                  |        |
| D100    | 8-719-914-43   | DIODE DAN202K-T-146          |        | FL1007  | 1-233-504-21 | FILTER, LOW PASS                  |        |
| D101    | 8-719-158-49   | DIODE UDZ-TE-17-12B          |        | FL4000  | 1-233-736-21 | FILTER, EMI                       |        |
| D102    | 8-719-158-49   | DIODE UDZ-TE-17-12B          |        | FL4001  | 1-233-736-21 | FILTER, EMI                       |        |
| D201    | 8-719-073-01   | DIODE MA111-TX               |        |         |              |                                   |        |
| D504    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B         |        | FL4002  | 1-233-736-21 | FILTER, EMI                       |        |
| D505    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B         |        | FL4003  | 1-233-434-11 | FILTER, LOW PASS                  |        |
| D506    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B         |        | FL4004  | 1-233-736-21 | FILTER, EMI                       |        |
| D507    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B         |        | FL4005  | 1-233-736-21 | FILTER, EMI                       |        |
| D508    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B         |        | FL4006  | 1-233-434-11 | FILTER, LOW PASS                  |        |
| D509    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B         |        |         |              |                                   |        |
| D510    | 8-719-073-01   | DIODE MA111-TX               |        |         |              | <IC>                              |        |
| D511    | 8-719-073-01   | DIODE MA111-TX               |        | IC1     | 8-759-460-72 | IC BA033FP-E2                     |        |
| D512    | 8-719-073-01   | DIODE MA111-TX               |        | IC2     | 8-759-003-17 | IC LM317T                         |        |
| D513    | 8-719-073-01   | DIODE MA111-TX               |        | IC3     | 8-759-460-72 | IC BA033FP-E2                     |        |
| D514    | 8-719-073-01   | DIODE MA111-TX               |        | IC4     | 8-759-390-57 | IC LM2940CT-5.0                   |        |
| D700    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B         |        | IC6     | 8-759-267-25 | IC LM2940CT-9.0                   |        |
| D701    | 8-719-073-01   | DIODE MA111-TX               |        |         |              |                                   |        |
| D702    | 8-719-059-22   | DIODE NSQ03A06-TE16L         |        | IC7     | 8-759-460-72 | IC BA033FP-E2                     |        |
| D703    | 8-719-073-01   | DIODE MA111-TX               |        | IC100   | 8-759-011-65 | IC TC74HC4053AF(EL)               |        |
| D704    | 8-719-073-01   | DIODE MA111-TX               |        | IC101   | 8-759-646-02 | IC M52347FP-TE                    |        |
| D705    | 8-719-073-01   | DIODE MA111-TX               |        | IC102   | 8-759-475-21 | IC TC74LCX244F(EL)                |        |
| D800    | 8-719-073-01   | DIODE MA111-TX               |        | IC103   | 8-759-442-20 | IC 24LC21T/SN                     |        |
| D801    | 8-719-057-00   | DIODE UDZ-TE-17-36B          |        |         |              |                                   |        |
| D802    | 8-719-510-48   | DIODE D1N20R-TR              |        | IC200   | 8-759-645-12 | IC AD9884AKS-140                  |        |
| D803    | 8-719-510-48   | DIODE D1N20R-TR              |        | IC202   | 8-759-481-73 | IC SN74LVC125APWR                 |        |
| D1000   | 8-719-800-76   | DIODE MA157-TX               |        | IC204   | 8-759-362-35 | IC ICS9161A-01CW16T               |        |
| D1001   | 8-719-800-76   | DIODE MA157-TX               |        | IC205   | 8-759-575-71 | IC M24C04-WMN6T                   |        |
| D1002   | 8-719-800-76   | DIODE MA157-TX               |        | IC206   | 8-759-669-11 | IC MBM29LV400TC-70PFTN-SV9695     |        |
| D1003   | 8-719-073-01   | DIODE MA111-TX               |        |         |              |                                   |        |
| D1004   | 8-719-073-01   | DIODE MA111-TX               |        | IC207   | 8-759-646-32 | IC PW164-20WK                     |        |
| D1005   | 8-719-988-61   | DIODE 1SS355TE-17            |        | IC208   | 8-759-652-59 | IC EPFQC240AA                     |        |
| D1006   | 8-719-073-01   | DIODE MA111-TX               |        | IC209   | 8-759-475-21 | IC TC74LCX244F(EL)                |        |
| D1007   | 8-719-422-12   | DIODE UDZ-TE-17-3.9B         |        | IC210   | 8-759-491-51 | IC TC74VHCT245AFT(EL)             |        |
| D4000   | 8-719-073-01   | DIODE MA111-TX               |        | IC211   | 8-759-491-51 | IC TC74VHCT245AFT(EL)             |        |
| D4001   | 8-719-073-01   | DIODE MA111-TX               |        |         |              |                                   |        |
| D4002   | 8-719-914-43   | DIODE DAN202K-T-146          |        | IC212   | 8-759-491-51 | IC TC74VHCT245AFT(EL)             |        |
| D4003   | 8-719-914-43   | DIODE DAN202K-T-146          |        | IC213   | 8-759-491-51 | IC TC74VHCT245AFT(EL)             |        |
| D4004   | 8-719-073-01   | DIODE MA111-TX               |        | IC214   | 8-759-599-99 | IC MB90096PF-G-182-BND-ER         |        |
| D4005   | 8-719-914-43   | DIODE DAN202K-T-146          |        | IC215   | 8-759-491-51 | IC TC74VHCT245AFT(EL)             |        |
| D4006   | 8-719-031-68   | DIODE HVU359TRF              |        | IC216   | 8-759-680-78 | IC EPC1PC8-9692V1.00 (PFM-500A3W) |        |
| D4007   | 8-719-031-68   | DIODE HVU359TRF              |        |         |              |                                   |        |
|         |                | <FERRITE BEAD>               |        | IC216   | 8-759-668-72 | IC EPC1PC8-9695V1.00 (PFM-510A2W) |        |
| FB101   | 1-414-234-22   | INDUCTOR CHIP 0μH            |        | IC218   | 8-759-646-15 | IC ST49C101ACF8-05-TR             |        |
| FB200   | 1-414-234-22   | INDUCTOR CHIP 0μH            |        | IC219   | 8-759-058-62 | IC TC7S08FU(TE85R)                |        |
| FB201   | 1-414-234-22   | INDUCTOR CHIP 0μH            |        | IC220   | 8-759-008-45 | IC MC74HC4538AF-T1 (PFM-500A3W)   |        |
| FB202   | 1-414-234-22   | INDUCTOR CHIP 0μH            |        | IC220   | 8-759-239-34 | IC TC74HC4538AF(EL) (PFM-510A2W)  |        |
| FB203   | 1-414-234-22   | INDUCTOR CHIP 0μH            |        |         |              |                                   |        |
|         |                |                              |        | IC221   | 8-759-439-67 | IC TC7W126FU(TE12R)               |        |
|         |                |                              |        | IC222   | 8-759-491-32 | IC TC74VHCT04AF(EL)               |        |
|         |                |                              |        | IC223   | 8-759-058-58 | IC TC7S04FU(TE85R)                |        |
|         |                |                              |        | IC224   | 8-759-011-65 | IC TC74HC4053AF(EL)               |        |
|         |                |                              |        | IC500   | 8-759-232-46 | IC TC74HC126AF(EL)                |        |

| Ref.No. | Part No.     | Description              | Remark | Ref.No. | Part No.     | Description                  | Remark |
|---------|--------------|--------------------------|--------|---------|--------------|------------------------------|--------|
| IC501   | 8-759-635-27 | IC M62352GP-75ED         |        | IC4009  | 8-759-239-55 | IC TC74HC123AF(EL)           |        |
| IC502   | 8-759-475-21 | IC TC74LCX244F(EL)       |        | IC4010  | 8-759-235-14 | IC TC74HC04AF-TP2            |        |
| IC503   | 8-759-252-59 | IC MAX202CSE-T           |        | IC4011  | 8-759-239-55 | IC TC74HC123AF(EL)           |        |
| IC504   | 8-759-560-17 | IC RS5C348A-E2           |        | IC4012  | 8-759-232-65 | IC TC74HC157AF(EL)           |        |
| IC505   | 8-759-232-46 | IC TC74HC126AF(EL)       |        |         |              |                              |        |
| IC506   | 8-759-232-44 | IC TC74HC125AF(EL)       |        |         |              | <COIL>                       |        |
| IC507   | 8-759-233-73 | IC TC74HCT244AF(EL)      |        | L200    | 1-414-752-11 | INDUCTOR 2.2μH               |        |
| IC508   | 8-759-186-30 | IC TC74VHC14F(EL)        |        | L700    | 1-410-482-31 | INDUCTOR 100μH               |        |
| IC509   | 8-759-648-10 | IC HD64F2633TE           |        | L701    | 1-406-666-21 | INDUCTOR 150μH               |        |
| IC510   | 8-759-058-62 | IC TC7S08FU(TE85R)       |        | L702    | 1-406-666-21 | INDUCTOR 150μH               |        |
|         |              |                          |        | L704    | 1-410-671-31 | INDUCTOR 47μH                |        |
| IC511   | 8-759-492-55 | IC M24C64-WMN6T          |        |         |              |                              |        |
| IC512   | 8-759-582-91 | IC S-80842ANNP-ED6-T2    |        | L800    | 1-408-615-31 | INDUCTOR 100μH               |        |
| IC513   | 8-759-582-91 | IC S-80842ANNP-ED6-T2    |        | L1001   | 1-410-200-31 | INDUCTOR CHIP 4.7μH          |        |
| IC700   | 8-759-058-62 | IC TC7S08FU(TE85R)       |        | L1002   | 1-414-042-21 | INDUCTOR 18μH                |        |
| IC701   | 8-759-058-62 | IC TC7S08FU(TE85R)       |        | L1003   | 1-410-210-21 | INDUCTOR CHIP 33μH           |        |
|         |              |                          |        | L1004   | 1-414-754-11 | INDUCTOR 10μH                |        |
| IC702   | 8-759-058-62 | IC TC7S08FU(TE85R)       |        |         |              |                              |        |
| IC703   | 8-759-981-65 | IC NJM2903M-T2           |        | L1005   | 1-414-754-11 | INDUCTOR 10μH                |        |
| IC704   | 8-759-058-62 | IC TC7S08FU(TE85R)       |        | L1006   | 1-414-757-11 | INDUCTOR 100μH               |        |
| IC705   | 8-759-058-62 | IC TC7S08FU(TE85R)       |        | L1007   | 1-412-052-21 | INDUCTOR CHIP 1μH            |        |
| IC800   | 8-759-346-93 | IC TA8184F(EL)           |        | L1008   | 1-414-757-11 | INDUCTOR 100μH               |        |
|         |              |                          |        | L1009   | 1-414-754-11 | INDUCTOR 10μH                |        |
| IC801   | 8-759-246-70 | IC TA8216H               |        |         |              |                              |        |
| IC1000  | 8-752-053-21 | IC CXA1211M-T4           |        | L1010   | 1-414-754-11 | INDUCTOR 10μH                |        |
| IC1001  | 8-752-053-21 | IC CXA1211M-T4           |        | L1011   | 1-410-663-31 | INDUCTOR 10μH                |        |
| IC1002  | 8-759-011-65 | IC TC74HC4053AF(EL)      |        | L1012   | 1-414-754-11 | INDUCTOR 10μH                |        |
| IC1003  | 8-759-011-65 | IC TC74HC4053AF(EL)      |        | L1013   | 1-414-757-11 | INDUCTOR 100μH               |        |
|         |              |                          |        | L1014   | 1-414-757-11 | INDUCTOR 100μH               |        |
| IC1004  | 8-759-082-61 | IC TC4W53FU(TE12R)       |        |         |              |                              |        |
| IC1005  | 8-752-053-21 | IC CXA1211M-T4           |        | L1015   | 1-414-757-11 | INDUCTOR 100μH               |        |
| IC1006  | 8-759-987-27 | IC LM1881MX              |        | L1016   | 1-414-754-11 | INDUCTOR 10μH                |        |
| IC1007  | 8-759-568-27 | IC MSM514265C-60JSDR1    |        | L1017   | 1-414-754-11 | INDUCTOR 10μH                |        |
| IC1008  | 8-759-460-72 | IC BA033FP-E2            |        | L1018   | 1-414-754-11 | INDUCTOR 10μH                |        |
|         |              |                          |        | L2000   | 1-414-754-11 | INDUCTOR 10μH                |        |
| IC1009  | 8-759-460-72 | IC BA033FP-E2            |        |         |              |                              |        |
| IC1010  | 8-759-031-84 | IC TC7S04F(TE85R)        |        | L4000   | 1-408-595-31 | INDUCTOR 2.2μH               |        |
| IC1011  | 8-759-594-44 | IC UPD64082GF-3BA        |        | L4001   | 1-408-591-11 | INDUCTOR 1μH                 |        |
| IC1012  | 8-759-031-84 | IC TC7S04F(TE85R)        |        | L4002   | 1-408-595-31 | INDUCTOR 2.2μH               |        |
| IC1014  | 8-759-635-27 | IC M62352GP-75ED         |        | L4003   | 1-408-595-31 | INDUCTOR 2.2μH               |        |
|         |              |                          |        | L4004   | 1-408-595-31 | INDUCTOR 2.2μH               |        |
| IC1027  | 8-759-970-89 | IC BA10358F-T2           |        |         |              |                              |        |
| IC1028  | 8-759-970-89 | IC BA10358F-T2           |        | L4005   | 1-408-591-11 | INDUCTOR 1μH                 |        |
| IC1029  | 8-759-970-89 | IC BA10358F-T2           |        | L4006   | 1-414-248-11 | INDUCTOR 2.2μH               |        |
| IC1030  | 8-752-067-05 | IC CXA1739S              |        | L4007   | 1-414-248-11 | INDUCTOR 2.2μH               |        |
| IC1031  | 8-759-011-65 | IC TC74HC4053AF(EL)      |        | L4008   | 1-408-591-11 | INDUCTOR 1μH                 |        |
|         |              |                          |        | L4009   | 1-410-193-51 | INDUCTOR CHIP 1.2μH          |        |
| IC1032  | 8-759-328-12 | IC Z8622812PSC           |        |         |              |                              |        |
| IC1033  | 8-759-390-57 | IC LM2940CT-5.0          |        | L4010   | 1-410-193-51 | INDUCTOR CHIP 1.2μH          |        |
| IC1034  | 8-759-390-38 | IC LM2940CT-12FL91       |        | L4011   | 1-410-193-51 | INDUCTOR CHIP 1.2μH          |        |
| IC1035  | 8-752-082-49 | IC CXA2119M-T6           |        | L4012   | 1-410-193-51 | INDUCTOR CHIP 1.2μH          |        |
| IC1036  | 8-749-015-18 | IC PQ07VZ012P            |        | L4013   | 1-410-193-51 | INDUCTOR CHIP 1.2μH          |        |
|         |              |                          |        | L4014   | 1-410-193-51 | INDUCTOR CHIP 1.2μH          |        |
| IC1037  | 8-759-430-32 | IC TLC2933IPWR           |        |         |              |                              |        |
| IC1039  | 8-759-573-19 | IC MSM56V16160D-10TS-K   |        | L4017   | 1-410-193-51 | INDUCTOR CHIP 1.2μH          |        |
| IC1040  | 8-752-398-47 | IC CXD2090Q              |        |         |              |                              |        |
| IC1041  | 8-759-295-09 | IC TLC2932IPW-E20        |        |         |              |                              |        |
| IC1042  | 8-759-447-90 | IC TLC5733AIPM           |        |         |              |                              |        |
|         |              |                          |        |         |              | <TRANSISTOR>                 |        |
| IC1043  | 8-759-528-48 | IC NJU7032M-TE2          |        | Q100    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        |
| IC1044  | 8-759-082-61 | IC TC4W53FU(TE12R)       |        | Q101    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        |
| IC2000  | 8-759-661-00 | IC ISPLSI2192VE-100LT128 |        | Q102    | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        |
| IC2001  | 8-759-660-42 | IC THC63LVD84A-T         |        | Q103    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        |
| IC2002  | 8-759-475-21 | IC TC74LCX244F(EL)       |        | Q104    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        |
|         |              |                          |        |         |              |                              |        |
| IC2010  | 8-759-460-72 | IC BA033FP-E2            |        | Q200    | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        |
| IC2011  | 8-759-460-72 | IC BA033FP-E2            |        | Q201    | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        |
| IC4000  | 8-759-430-79 | IC TDA8395T/N3           |        | Q202    | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        |
| IC4001  | 8-752-070-58 | IC CXA1860Q-T4           |        | Q203    | 8-729-027-38 | TRANSISTOR DTA144EKA-T146    |        |
| IC4003  | 8-752-352-09 | IC CXD2300Q-T4           |        | Q502    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        |
|         |              |                          |        |         |              |                              |        |
| IC4004  | 8-752-369-15 | IC CXD2030R              |        | Q503    | 8-729-101-07 | TRANSISTOR 2SA1213Y-TE12L    |        |
| IC4005  | 8-759-011-65 | IC TC74HC4053AF(EL)      |        | Q700    | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        |
| IC4006  | 8-752-369-84 | IC CXD2309Q-T6           |        | Q701    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        |
| IC4007  | 8-759-296-53 | IC UPC1862GS-E2          |        | Q702    | 8-729-041-37 | TRANSISTOR 2SJ377(TE16L)     |        |
| IC4008  | 8-759-239-55 | IC TC74HC123AF(EL)       |        | Q800    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        |

| Ref.No. | Part No.     | Description                  | Remark | Ref.No.    | Part No.     | Description                  | Remark           |
|---------|--------------|------------------------------|--------|------------|--------------|------------------------------|------------------|
| Q801    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q1061      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |                  |
| Q802    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q1062      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |                  |
| Q803    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q1063      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |                  |
| Q804    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q1064      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |                  |
| Q1000   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q1065      | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |                  |
| Q1001   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q1066      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1002   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4000      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1003   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4001      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-R  |                  |
| Q1004   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4002      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-R  |                  |
| Q1005   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4003      | 8-729-900-53 | TRANSISTOR DTC114EKA-T146    |                  |
| Q1006   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4004      | 8-729-900-53 | TRANSISTOR DTC114EKA-T146    |                  |
| Q1007   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4005      | 8-729-027-23 | TRANSISTOR DTA114EKA-T146    |                  |
| Q1008   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4006      | 8-729-900-53 | TRANSISTOR DTC114EKA-T146    |                  |
| Q1009   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4007      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1010   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4008      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1011   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4009      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-R  |                  |
| Q1012   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4010      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-R  |                  |
| Q1013   | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        | Q4011      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-R  |                  |
| Q1014   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4012      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-R  |                  |
| Q1015   | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        | Q4013      | 8-729-027-23 | TRANSISTOR DTA114EKA-T146    |                  |
| Q1016   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4014      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-R  |                  |
| Q1017   | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        | Q4015      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-R  |                  |
| Q1018   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4016      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-R  |                  |
| Q1019   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4017      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-R  |                  |
| Q1020   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4018      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1021   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4019      | 8-729-900-53 | TRANSISTOR DTC114EKA-T146    |                  |
| Q1022   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4020      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1023   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4021      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-R  |                  |
| Q1024   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4022      | 8-729-027-23 | TRANSISTOR DTA114EKA-T146    |                  |
| Q1025   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4023      | 8-729-900-53 | TRANSISTOR DTC114EKA-T146    |                  |
| Q1026   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4024      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1027   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        | Q4025      | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |                  |
| Q1028   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4026      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |                  |
| Q1029   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | Q4027      | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |                  |
| Q1030   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4028      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |                  |
| Q1031   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | Q4029      | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |                  |
| Q1032   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | Q4030      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1033   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | Q4031      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1034   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | Q4032      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1035   | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        | Q4033      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1036   | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        | Q4034      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1037   | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        | Q4035      | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |                  |
| Q1038   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | Q4036      | 8-729-027-38 | TRANSISTOR DTA144EKA-T146    |                  |
| Q1039   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | Q4037      | 8-729-027-38 | TRANSISTOR DTA144EKA-T146    |                  |
| Q1040   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | Q4038      | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |                  |
| Q1041   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | Q4039      | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |                  |
| Q1042   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | <RESISTOR> |              |                              |                  |
| Q1043   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | R1         | 1-216-341-11 | METAL OXIDE                  | 0.22 5% 1W       |
| Q1044   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | R3         | 1-216-643-11 | METAL CHIP                   | 470 0.50% 1/10W  |
| Q1045   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | R4         | 1-216-643-11 | METAL CHIP                   | 470 0.50% 1/10W  |
| Q1046   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | R5         | 1-215-880-00 | METAL OXIDE                  | 10 5% 2W         |
| Q1047   | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |        | R100       | 1-216-041-00 | RES-CHIP                     | 470 5% 1/10W     |
| Q1048   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | R101       | 1-216-041-00 | RES-CHIP                     | 470 5% 1/10W     |
| Q1049   | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |        | R102       | 1-216-660-11 | METAL CHIP                   | 2.4K 0.50% 1/10W |
| Q1050   | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |        | R103       | 1-216-681-11 | METAL CHIP                   | 18K 0.50% 1/10W  |
| Q1051   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | R104       | 1-216-662-11 | METAL CHIP                   | 3K 0.50% 1/10W   |
| Q1052   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | R105       | 1-216-681-11 | METAL CHIP                   | 18K 0.50% 1/10W  |
| Q1053   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        | R106       | 1-218-756-11 | METAL CHIP                   | 150K 0.50% 1/10W |
| Q1054   | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |        | R107       | 1-216-697-91 | METAL CHIP                   | 82K 0.50% 1/10W  |
| Q1055   | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |        | R108       | 1-216-666-11 | METAL CHIP                   | 4.3K 0.50% 1/10W |
| Q1056   | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX    |        | R109       | 1-216-659-11 | METAL CHIP                   | 2.2K 0.50% 1/10W |
| Q1057   | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-QR |        | R110       | 1-216-659-11 | METAL CHIP                   | 2.2K 0.50% 1/10W |
| Q1058   | 8-729-900-53 | TRANSISTOR DTC114EKA-T146    |        |            |              |                              |                  |
| Q1059   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        |            |              |                              |                  |
| Q1060   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-Q  |        |            |              |                              |                  |

| Ref.No. | Part No.     | Description | Remark         |       |                       | Ref.No. | Part No.     | Description | Remark |       |       |
|---------|--------------|-------------|----------------|-------|-----------------------|---------|--------------|-------------|--------|-------|-------|
| R111    | 1-216-659-11 | METAL CHIP  | 2.2K           | 0.50% | 1/10W                 | R282    | 1-216-624-11 | METAL CHIP  | 75     | 0.50% | 1/10W |
| R112    | 1-216-017-91 | RES-CHIP    | 47             | 5%    | 1/10W                 | R283    | 1-216-631-11 | METAL CHIP  | 150    | 0.50% | 1/10W |
| R114    | 1-216-017-91 | RES-CHIP    | 47             | 5%    | 1/10W                 | R284    | 1-216-624-11 | METAL CHIP  | 75     | 0.50% | 1/10W |
| R115    | 1-216-017-91 | RES-CHIP    | 47             | 5%    | 1/10W                 | R290    | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R116    | 1-216-089-91 | RES-CHIP    | 47K            | 5%    | 1/10W                 | R291    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R117    | 1-216-017-91 | RES-CHIP    | 47             | 5%    | 1/10W                 | R292    | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W |
| R204    | 1-216-001-00 | RES-CHIP    | 10             | 5%    | 1/10W                 | R293    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R205    | 1-216-001-00 | RES-CHIP    | 10             | 5%    | 1/10W                 | R294    | 1-216-673-11 | METAL CHIP  | 8.2K   | 0.50% | 1/10W |
| R206    | 1-216-061-00 | RES-CHIP    | 3.3K           | 5%    | 1/10W                 | R295    | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R207    | 1-216-295-91 | SHORT       | 0              |       |                       | R296    | 1-216-697-91 | METAL CHIP  | 82K    | 0.50% | 1/10W |
| R208    | 1-216-061-00 | RES-CHIP    | 3.3K           | 5%    | 1/10W                 | R297    | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R211    | 1-216-073-00 | RES-CHIP    | 10K            | 5%    | 1/10W                 | R437    | 1-216-037-00 | RES-CHIP    | 330    | 5%    | 1/10W |
| R212    | 1-216-653-11 | METAL CHIP  | 1.2K           | 0.50% | 1/10W                 | R438    | 1-216-037-00 | RES-CHIP    | 330    | 5%    | 1/10W |
| R213    | 1-216-073-00 | RES-CHIP    | 10K            | 5%    | 1/10W                 | R439    | 1-216-037-00 | RES-CHIP    | 330    | 5%    | 1/10W |
| R214    | 1-216-009-91 | RES-CHIP    | 22             | 5%    | 1/10W                 | R440    | 1-216-029-00 | RES-CHIP    | 150    | 5%    | 1/10W |
| R216    | 1-216-009-91 | RES-CHIP    | 22             | 5%    | 1/10W                 | R441    | 1-216-029-00 | RES-CHIP    | 150    | 5%    | 1/10W |
| R217    | 1-216-017-91 | RES-CHIP    | 47             | 5%    | 1/10W                 | R442    | 1-216-029-00 | RES-CHIP    | 150    | 5%    | 1/10W |
| R218    | 1-216-017-91 | RES-CHIP    | 47             | 5%    | 1/10W                 | R443    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R219    | 1-216-295-91 | SHORT       | 0              |       |                       | R444    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R220    | 1-216-017-91 | RES-CHIP    | 47             | 5%    | 1/10W                 | R445    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R221    | 1-216-295-91 | SHORT       | 0              |       |                       | R446    | 1-216-643-11 | METAL CHIP  | 470    | 0.50% | 1/10W |
| R222    | 1-216-017-91 | RES-CHIP    | 47             | 5%    | 1/10W                 | R447    | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R223    | 1-216-017-91 | RES-CHIP    | 47             | 5%    | 1/10W                 | R448    | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W |
| R224    | 1-216-017-91 | RES-CHIP    | 47             | 5%    | 1/10W                 | R449    | 1-216-663-11 | METAL CHIP  | 3.3K   | 0.50% | 1/10W |
| R225    | 1-216-017-91 | RES-CHIP    | 47             | 5%    | 1/10W                 | R450    | 1-216-691-11 | METAL CHIP  | 47K    | 0.50% | 1/10W |
| R226    | 1-216-057-00 | RES-CHIP    | 2.2K           | 5%    | 1/10W                 | R451    | 1-216-695-11 | METAL CHIP  | 68K    | 0.50% | 1/10W |
| R230    | 1-216-067-00 | RES-CHIP    | 5.6K           | 5%    | 1/10W<br>(PFM-510A2W) | R452    | 1-216-697-91 | METAL CHIP  | 82K    | 0.50% | 1/10W |
| R231    | 1-216-073-00 | RES-CHIP    | 10K            | 5%    | 1/10W                 | R453    | 1-216-295-91 | SHORT       | 0      |       |       |
| R232    | 1-216-073-00 | RES-CHIP    | 10K            | 5%    | 1/10W                 | R456    | 1-216-295-91 | SHORT       | 0      |       |       |
| R233    | 1-216-061-00 | RES-CHIP    | 3.3K           | 5%    | 1/10W                 | R500    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R234    | 1-216-061-00 | RES-CHIP    | 3.3K           | 5%    | 1/10W                 | R501    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R235    | 1-216-049-91 | RES-CHIP    | 1K             | 5%    | 1/10W                 | R502    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R236    | 1-216-049-91 | RES-CHIP    | 1K             | 5%    | 1/10W                 | R503    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R238    | 1-216-295-91 | SHORT       | 0              |       |                       | R504    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R239    | 1-216-295-91 | SHORT       | 0              |       |                       | R505    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R240    | 1-216-295-91 | SHORT       | 0              |       |                       | R506    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R244    | 1-216-295-91 | SHORT       | 0              |       |                       | R507    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R245    | 1-216-295-91 | SHORT       | 0              |       |                       | R508    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R246    | 1-216-295-91 | SHORT       | 0              |       |                       | R509    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R248    | 1-216-295-91 | SHORT       | 0              |       |                       | R510    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R249    | 1-216-295-91 | SHORT       | 0              |       |                       | R511    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R250    | 1-216-295-91 | SHORT       | 0              |       |                       | R512    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R251    | 1-216-295-91 | SHORT       | 0              |       |                       | R513    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R252    | 1-216-295-91 | SHORT       | 0              |       |                       | R514    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R253    | 1-216-295-91 | SHORT       | 0              |       |                       | R515    | 1-216-031-00 | RES-CHIP    | 180    | 5%    | 1/10W |
| R254    | 1-216-295-91 | SHORT       | 0              |       |                       | R516    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R255    | 1-216-295-91 | SHORT       | 0              |       |                       | R517    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R256    | 1-216-295-91 | SHORT       | 0              |       |                       | R518    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R257    | 1-216-073-00 | RES-CHIP    | 10K            | 5%    | 1/10W                 | R519    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R258    | 1-216-073-00 | RES-CHIP    | 10K            | 5%    | 1/10W                 | R520    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R259    | 1-216-073-00 | RES-CHIP    | 10K            | 5%    | 1/10W                 | R521    | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R263    | 1-216-681-11 | METAL CHIP  | 18K            | 0.50% | 1/10W<br>(PFM-510A2W) | R525    | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R269    | 1-216-295-91 | SHORT       | 0 (PFM-510A2W) |       |                       | R526    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R270    | 1-216-295-91 | SHORT       | 0 (PFM-510A2W) |       |                       | R527    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R271    | 1-216-295-91 | SHORT       | 0 (PFM-510A2W) |       |                       | R528    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R272    | 1-216-295-91 | SHORT       | 0 (PFM-510A2W) |       |                       | R529    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R273    | 1-216-295-91 | SHORT       | 0 (PFM-500A3W) |       |                       | R530    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R274    | 1-216-295-91 | SHORT       | 0 (PFM-510A2W) |       |                       | R531    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R275    | 1-216-295-91 | SHORT       | 0 (PFM-510A2W) |       |                       | R532    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R276    | 1-216-295-91 | SHORT       | 0 (PFM-510A2W) |       |                       | R533    | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W |
| R277    | 1-216-295-91 | SHORT       | 0              |       |                       | R534    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R278    | 1-216-295-91 | SHORT       | 0 (PFM-510A2W) |       |                       | R535    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R279    | 1-216-295-91 | SHORT       | 0 (PFM-500A3W) |       |                       | R536    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R280    | 1-216-295-91 | SHORT       | 0 (PFM-500A3W) |       |                       | R537    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R281    | 1-216-295-91 | SHORT       | 0 (PFM-510A2W) |       |                       | R538    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |



| Ref.No. | Part No.     | Description | Remark |       |       | Ref.No. | Part No.     | Description | Remark |       |       |
|---------|--------------|-------------|--------|-------|-------|---------|--------------|-------------|--------|-------|-------|
| R539    | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W | R604    | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W |
| R540    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R605    | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W |
| R541    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R606    | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W |
| R542    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R607    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R543    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R608    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R544    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R609    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R545    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R610    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R546    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R611    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R547    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R612    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R548    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R613    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R549    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R614    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R550    | 1-216-009-91 | RES-CHIP    | 22     | 5%    | 1/10W | R615    | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W |
| R551    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R616    | 1-216-083-00 | RES-CHIP    | 27K    | 5%    | 1/10W |
| R552    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R617    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R553    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R618    | 1-216-083-00 | RES-CHIP    | 27K    | 5%    | 1/10W |
| R554    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R622    | 1-216-031-00 | RES-CHIP    | 180    | 5%    | 1/10W |
| R555    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R700    | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R556    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R701    | 1-216-681-11 | METAL CHIP  | 18K    | 0.50% | 1/10W |
| R557    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R702    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R558    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R703    | 1-216-071-00 | RES-CHIP    | 8.2K   | 5%    | 1/10W |
| R559    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R704    | 1-216-085-00 | RES-CHIP    | 33K    | 5%    | 1/10W |
| R560    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R705    | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W |
| R561    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R706    | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W |
| R562    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R707    | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W |
| R563    | 1-216-634-11 | METAL CHIP  | 200    | 0.50% | 1/10W | R708    | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W |
| R564    | 1-216-662-11 | METAL CHIP  | 3K     | 0.50% | 1/10W | R709    | 1-216-059-00 | RES-CHIP    | 2.7K   | 5%    | 1/10W |
| R565    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R710    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R566    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R711    | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R567    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R712    | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R568    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R713    | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R569    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R714    | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R570    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R715    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R571    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R716    | 1-249-381-11 | CARBON      | 1      | 5%    | 1/4W  |
| R572    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R717    | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R573    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R718    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R574    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R719    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R575    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R720    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R576    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R721    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R577    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R722    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R578    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W | R723    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R579    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W | R724    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R580    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R725    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R581    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R726    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R582    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R727    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R583    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R728    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R584    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R729    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R585    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R730    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R586    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R731    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R587    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R732    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R588    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R733    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R589    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R800    | 1-216-033-00 | RES-CHIP    | 220    | 5%    | 1/10W |
| R590    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R801    | 1-216-033-00 | RES-CHIP    | 220    | 5%    | 1/10W |
| R591    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R802    | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R592    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R803    | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W |
| R593    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R804    | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W |
| R594    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R805    | 1-216-063-91 | RES-CHIP    | 3.9K   | 5%    | 1/10W |
| R595    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R806    | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W |
| R596    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R807    | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W |
| R597    | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R808    | 1-216-063-91 | RES-CHIP    | 3.9K   | 5%    | 1/10W |
| R598    | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W | R809    | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W |
| R599    | 1-216-089-91 | RES-CHIP    | 47K    | 5%    | 1/10W | R810    | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W |
| R600    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W | R811    | 1-216-089-91 | RES-CHIP    | 47K    | 5%    | 1/10W |
| R601    | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W | R812    | 1-216-089-91 | RES-CHIP    | 47K    | 5%    | 1/10W |
| R602    | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | R813    | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W |
| R603    | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W | R814    | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W |

| Ref.No. | Part No.     | Description | Remark |       |       | Ref.No. | Part No.     | Description | Remark |       |       |
|---------|--------------|-------------|--------|-------|-------|---------|--------------|-------------|--------|-------|-------|
| R815    | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W | R1051   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R816    | 1-216-033-00 | RES-CHIP    | 220    | 5%    | 1/10W | R1052   | 1-216-635-11 | METAL CHIP  | 220    | 0.50% | 1/10W |
| R817    | 1-216-019-00 | RES-CHIP    | 56     | 5%    | 1/10W | R1053   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R818    | 1-216-033-00 | RES-CHIP    | 220    | 5%    | 1/10W | R1054   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R819    | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W | R1055   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R820    | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W | R1056   | 1-216-652-11 | METAL CHIP  | 1.1K   | 0.50% | 1/10W |
| R821    | 1-216-019-00 | RES-CHIP    | 56     | 5%    | 1/10W | R1057   | 1-216-663-11 | METAL CHIP  | 3.3K   | 0.50% | 1/10W |
| R822    | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W | R1058   | 1-216-661-11 | METAL CHIP  | 2.7K   | 0.50% | 1/10W |
| R823    | 1-249-385-11 | CARBON      | 2.2    | 5%    | 1/4W  | R1059   | 1-216-653-11 | METAL CHIP  | 1.2K   | 0.50% | 1/10W |
| R824    | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W | R1060   | 1-216-643-11 | METAL CHIP  | 470    | 0.50% | 1/10W |
| R825    | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W | R1062   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R826    | 1-249-385-11 | CARBON      | 2.2    | 5%    | 1/4W  | R1063   | 1-216-631-11 | METAL CHIP  | 150    | 0.50% | 1/10W |
| R828    | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W | R1064   | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W |
| R829    | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W | R1065   | 1-216-661-11 | METAL CHIP  | 2.7K   | 0.50% | 1/10W |
| R830    | 1-216-369-00 | METAL OXIDE | 1      | 5%    | 2W    | R1066   | 1-216-667-11 | METAL CHIP  | 4.7K   | 0.50% | 1/10W |
| R1000   | 1-216-681-11 | METAL CHIP  | 18K    | 0.50% | 1/10W | R1067   | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R1001   | 1-216-687-11 | METAL CHIP  | 33K    | 0.50% | 1/10W | R1068   | 1-216-117-00 | RES-CHIP    | 680K   | 5%    | 1/10W |
| R1002   | 1-216-681-11 | METAL CHIP  | 18K    | 0.50% | 1/10W | R1069   | 1-216-017-91 | RES-CHIP    | 47     | 5%    | 1/10W |
| R1003   | 1-216-687-11 | METAL CHIP  | 33K    | 0.50% | 1/10W | R1070   | 1-216-021-00 | RES-CHIP    | 68     | 5%    | 1/10W |
| R1004   | 1-216-681-11 | METAL CHIP  | 18K    | 0.50% | 1/10W | R1071   | 1-216-053-00 | RES-CHIP    | 1.5K   | 5%    | 1/10W |
| R1005   | 1-216-687-11 | METAL CHIP  | 33K    | 0.50% | 1/10W | R1073   | 1-216-041-00 | RES-CHIP    | 470    | 5%    | 1/10W |
| R1006   | 1-216-055-00 | RES-CHIP    | 1.8K   | 5%    | 1/10W | R1074   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1007   | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W | R1075   | 1-216-055-00 | RES-CHIP    | 1.8K   | 5%    | 1/10W |
| R1008   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | R1076   | 1-216-055-00 | RES-CHIP    | 1.8K   | 5%    | 1/10W |
| R1009   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | R1077   | 1-216-055-00 | RES-CHIP    | 1.8K   | 5%    | 1/10W |
| R1010   | 1-216-687-11 | METAL CHIP  | 33K    | 0.50% | 1/10W | R1078   | 1-216-055-00 | RES-CHIP    | 1.8K   | 5%    | 1/10W |
| R1011   | 1-216-681-11 | METAL CHIP  | 18K    | 0.50% | 1/10W | R1079   | 1-216-079-00 | RES-CHIP    | 18K    | 5%    | 1/10W |
| R1012   | 1-216-041-00 | RES-CHIP    | 470    | 5%    | 1/10W | R1080   | 1-216-077-91 | RES-CHIP    | 15K    | 5%    | 1/10W |
| R1013   | 1-216-657-11 | METAL CHIP  | 1.8K   | 0.50% | 1/10W | R1081   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R1014   | 1-216-069-00 | RES-CHIP    | 6.8K   | 5%    | 1/10W | R1082   | 1-216-055-00 | RES-CHIP    | 1.8K   | 5%    | 1/10W |
| R1015   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1083   | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R1016   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1084   | 1-216-043-91 | RES-CHIP    | 560    | 5%    | 1/10W |
| R1017   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1085   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1018   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R1086   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1019   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | R1087   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1020   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R1088   | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W |
| R1021   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | R1090   | 1-216-067-00 | RES-CHIP    | 5.6K   | 5%    | 1/10W |
| R1022   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R1091   | 1-216-077-91 | RES-CHIP    | 15K    | 5%    | 1/10W |
| R1023   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | R1092   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1024   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R1093   | 1-216-055-00 | RES-CHIP    | 1.8K   | 5%    | 1/10W |
| R1025   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1094   | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R1026   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R1095   | 1-216-645-11 | METAL CHIP  | 560    | 0.50% | 1/10W |
| R1027   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1096   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W |
| R1028   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R1097   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W |
| R1029   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1098   | 1-216-023-00 | RES-CHIP    | 82     | 5%    | 1/10W |
| R1030   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | R1099   | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W |
| R1031   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | R1100   | 1-216-053-00 | RES-CHIP    | 1.5K   | 5%    | 1/10W |
| R1032   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | R1101   | 1-216-053-00 | RES-CHIP    | 1.5K   | 5%    | 1/10W |
| R1033   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1102   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1034   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1103   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1035   | 1-216-069-00 | RES-CHIP    | 6.8K   | 5%    | 1/10W | R1104   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1036   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1105   | 1-216-069-00 | RES-CHIP    | 6.8K   | 5%    | 1/10W |
| R1037   | 1-216-069-00 | RES-CHIP    | 6.8K   | 5%    | 1/10W | R1109   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1038   | 1-216-659-11 | METAL CHIP  | 2.2K   | 0.50% | 1/10W | R1110   | 1-216-659-11 | METAL CHIP  | 2.2K   | 0.50% | 1/10W |
| R1039   | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W | R1111   | 1-216-659-11 | METAL CHIP  | 2.2K   | 0.50% | 1/10W |
| R1040   | 1-216-657-11 | METAL CHIP  | 1.8K   | 0.50% | 1/10W | R1115   | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R1041   | 1-216-683-11 | METAL CHIP  | 22K    | 0.50% | 1/10W | R1116   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1043   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W | R1117   | 1-216-053-00 | RES-CHIP    | 1.5K   | 5%    | 1/10W |
| R1044   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W | R1118   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1045   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W | R1119   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1046   | 1-216-669-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W | R1120   | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R1047   | 1-216-667-11 | METAL CHIP  | 4.7K   | 0.50% | 1/10W | R1121   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W |
| R1048   | 1-216-676-11 | METAL CHIP  | 11K    | 0.50% | 1/10W | R1122   | 1-216-619-11 | METAL CHIP  | 47     | 0.50% | 1/10W |
| R1049   | 1-216-661-11 | METAL CHIP  | 2.7K   | 0.50% | 1/10W | R1123   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1050   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R1124   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |

| Ref.No. | Part No.     | Description | Remark |       |       | Ref.No. | Part No.     | Description | Remark |       |       |
|---------|--------------|-------------|--------|-------|-------|---------|--------------|-------------|--------|-------|-------|
| R1126   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R1192   | 1-216-077-91 | RES-CHIP    | 15K    | 5%    | 1/10W |
| R1127   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R1193   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1129   | 1-216-676-11 | METAL CHIP  | 11K    | 0.50% | 1/10W | R1194   | 1-216-077-91 | RES-CHIP    | 15K    | 5%    | 1/10W |
| R1130   | 1-216-655-11 | METAL CHIP  | 1.5K   | 0.50% | 1/10W | R1195   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R1131   | 1-216-671-11 | METAL CHIP  | 6.8K   | 0.50% | 1/10W | R1196   | 1-216-649-11 | METAL CHIP  | 820    | 0.50% | 1/10W |
| R1132   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R1197   | 1-216-647-11 | METAL CHIP  | 680    | 0.50% | 1/10W |
| R1133   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R1198   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R1134   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R1199   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R1135   | 1-216-295-91 | SHORT       | 0      |       |       | R1200   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R1136   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R1201   | 1-216-649-11 | METAL CHIP  | 820    | 0.50% | 1/10W |
| R1137   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1202   | 1-216-647-11 | METAL CHIP  | 680    | 0.50% | 1/10W |
| R1138   | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W | R1203   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R1139   | 1-216-037-00 | RES-CHIP    | 330    | 5%    | 1/10W | R1204   | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W |
| R1140   | 1-216-643-11 | METAL CHIP  | 470    | 0.50% | 1/10W | R1205   | 1-216-649-11 | METAL CHIP  | 820    | 0.50% | 1/10W |
| R1141   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R1206   | 1-216-647-11 | METAL CHIP  | 680    | 0.50% | 1/10W |
| R1142   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | R1207   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R1143   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W | R1208   | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W |
| R1144   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R1209   | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W |
| R1145   | 1-216-673-11 | METAL CHIP  | 8.2K   | 0.50% | 1/10W | R1210   | 1-216-643-11 | METAL CHIP  | 470    | 0.50% | 1/10W |
| R1146   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | R1211   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1147   | 1-216-647-11 | METAL CHIP  | 680    | 0.50% | 1/10W | R1212   | 1-216-645-11 | METAL CHIP  | 560    | 0.50% | 1/10W |
| R1148   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1213   | 1-216-641-11 | METAL CHIP  | 390    | 0.50% | 1/10W |
| R1149   | 1-216-661-11 | METAL CHIP  | 2.7K   | 0.50% | 1/10W | R1214   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1150   | 1-216-667-11 | METAL CHIP  | 4.7K   | 0.50% | 1/10W | R1215   | 1-216-643-11 | METAL CHIP  | 470    | 0.50% | 1/10W |
| R1151   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R1216   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1152   | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W | R1217   | 1-216-645-11 | METAL CHIP  | 560    | 0.50% | 1/10W |
| R1153   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W | R1218   | 1-216-645-11 | METAL CHIP  | 560    | 0.50% | 1/10W |
| R1154   | 1-216-657-11 | METAL CHIP  | 1.8K   | 0.50% | 1/10W | R1219   | 1-216-669-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W |
| R1155   | 1-216-681-11 | METAL CHIP  | 18K    | 0.50% | 1/10W | R1220   | 1-216-043-91 | RES-CHIP    | 560    | 5%    | 1/10W |
| R1156   | 1-216-643-11 | METAL CHIP  | 470    | 0.50% | 1/10W | R1221   | 1-216-669-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W |
| R1157   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R1222   | 1-216-043-91 | RES-CHIP    | 560    | 5%    | 1/10W |
| R1158   | 1-216-667-11 | METAL CHIP  | 4.7K   | 0.50% | 1/10W | R1223   | 1-216-669-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W |
| R1159   | 1-216-647-11 | METAL CHIP  | 680    | 0.50% | 1/10W | R1224   | 1-216-043-91 | RES-CHIP    | 560    | 5%    | 1/10W |
| R1160   | 1-216-667-11 | METAL CHIP  | 4.7K   | 0.50% | 1/10W | R1225   | 1-216-113-00 | RES-CHIP    | 470K   | 5%    | 1/10W |
| R1161   | 1-216-647-11 | METAL CHIP  | 680    | 0.50% | 1/10W | R1226   | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W |
| R1162   | 1-216-667-11 | METAL CHIP  | 4.7K   | 0.50% | 1/10W | R1227   | 1-216-033-00 | RES-CHIP    | 220    | 5%    | 1/10W |
| R1163   | 1-216-647-11 | METAL CHIP  | 680    | 0.50% | 1/10W | R1228   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R1164   | 1-216-647-11 | METAL CHIP  | 680    | 0.50% | 1/10W | R1229   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W |
| R1165   | 1-216-657-11 | METAL CHIP  | 1.8K   | 0.50% | 1/10W | R1230   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1166   | 1-216-069-00 | RES-CHIP    | 6.8K   | 5%    | 1/10W | R1231   | 1-216-037-00 | RES-CHIP    | 330    | 5%    | 1/10W |
| R1167   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1232   | 1-216-033-00 | RES-CHIP    | 220    | 5%    | 1/10W |
| R1168   | 1-216-069-00 | RES-CHIP    | 6.8K   | 5%    | 1/10W | R1233   | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W |
| R1169   | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W | R1234   | 1-216-653-11 | METAL CHIP  | 1.2K   | 0.50% | 1/10W |
| R1170   | 1-216-069-00 | RES-CHIP    | 6.8K   | 5%    | 1/10W | R1235   | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R1171   | 1-216-643-11 | METAL CHIP  | 470    | 0.50% | 1/10W | R1236   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R1172   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R1237   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W |
| R1173   | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W | R1238   | 1-216-062-00 | RES-CHIP    | 3.6K   | 5%    | 1/10W |
| R1174   | 1-216-647-11 | METAL CHIP  | 680    | 0.50% | 1/10W | R1240   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1175   | 1-216-657-11 | METAL CHIP  | 1.8K   | 0.50% | 1/10W | R1241   | 1-216-113-00 | RES-CHIP    | 470K   | 5%    | 1/10W |
| R1176   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | R1242   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1177   | 1-216-679-11 | METAL CHIP  | 15K    | 0.50% | 1/10W | R1243   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W |
| R1178   | 1-216-681-11 | METAL CHIP  | 18K    | 0.50% | 1/10W | R1244   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1179   | 1-218-758-11 | METAL CHIP  | 180K   | 0.50% | 1/10W | R1247   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1180   | 1-216-671-11 | METAL CHIP  | 6.8K   | 0.50% | 1/10W | R1249   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1181   | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W | R1250   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1182   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R1251   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1183   | 1-218-756-11 | METAL CHIP  | 150K   | 0.50% | 1/10W | R1252   | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W |
| R1184   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W | R1253   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1185   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W | R1254   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1186   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W | R1256   | 1-216-295-91 | SHORT       | 0      |       |       |
| R1187   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W | R1261   | 1-216-646-11 | METAL CHIP  | 620    | 0.50% | 1/10W |
| R1188   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W | R1262   | 1-216-635-11 | METAL CHIP  | 220    | 0.50% | 1/10W |
| R1189   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W | R1263   | 1-216-035-00 | RES-CHIP    | 270    | 5%    | 1/10W |
| R1190   | 1-216-071-00 | RES-CHIP    | 8.2K   | 5%    | 1/10W | R1264   | 1-216-663-11 | METAL CHIP  | 3.3K   | 0.50% | 1/10W |
| R1191   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R1265   | 1-216-635-11 | METAL CHIP  | 220    | 0.50% | 1/10W |

| Ref.No. | Part No.     | Description | Remark |       |       | Ref.No. | Part No.     | Description | Remark |       |       |
|---------|--------------|-------------|--------|-------|-------|---------|--------------|-------------|--------|-------|-------|
| R1266   | 1-216-635-11 | METAL CHIP  | 220    | 0.50% | 1/10W | R4008   | 1-216-053-00 | RES-CHIP    | 1.5K   | 5%    | 1/10W |
| R1267   | 1-216-295-91 | SHORT       | 0      |       |       | R4009   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1269   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W | R4010   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R1270   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | R4011   | 1-216-075-00 | RES-CHIP    | 12K    | 5%    | 1/10W |
| R1271   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R4012   | 1-216-063-91 | RES-CHIP    | 3.9K   | 5%    | 1/10W |
| R1272   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R4013   | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W |
| R1273   | 1-216-047-91 | RES-CHIP    | 820    | 5%    | 1/10W | R4014   | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W |
| R1274   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R4015   | 1-216-053-00 | RES-CHIP    | 1.5K   | 5%    | 1/10W |
| R1275   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W | R4016   | 1-216-085-00 | RES-CHIP    | 33K    | 5%    | 1/10W |
| R1276   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | R4017   | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R1277   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | R4018   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1278   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R4019   | 1-216-069-00 | RES-CHIP    | 6.8K   | 5%    | 1/10W |
| R1279   | 1-216-117-00 | RES-CHIP    | 680K   | 5%    | 1/10W | R4020   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W |
| R1280   | 1-216-066-00 | RES-CHIP    | 5.1K   | 5%    | 1/10W | R4021   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1281   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W | R4022   | 1-216-648-11 | METAL CHIP  | 750    | 0.50% | 1/10W |
| R1282   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | R4023   | 1-216-636-11 | METAL CHIP  | 240    | 0.50% | 1/10W |
| R1283   | 1-216-117-00 | RES-CHIP    | 680K   | 5%    | 1/10W | R4024   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1284   | 1-216-295-91 | SHORT       | 0      |       |       | R4025   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W |
| R1286   | 1-216-089-91 | RES-CHIP    | 47K    | 5%    | 1/10W | R4026   | 1-216-001-00 | RES-CHIP    | 10     | 5%    | 1/10W |
| R1287   | 1-216-037-00 | RES-CHIP    | 330    | 5%    | 1/10W | R4027   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1288   | 1-216-295-91 | SHORT       | 0      |       |       | R4028   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1289   | 1-216-037-00 | RES-CHIP    | 330    | 5%    | 1/10W | R4029   | 1-216-077-91 | RES-CHIP    | 15K    | 5%    | 1/10W |
| R1290   | 1-216-077-91 | RES-CHIP    | 15K    | 5%    | 1/10W | R4030   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R1291   | 1-216-673-11 | METAL CHIP  | 8.2K   | 0.50% | 1/10W | R4031   | 1-216-063-91 | RES-CHIP    | 3.9K   | 5%    | 1/10W |
| R1292   | 1-216-668-11 | METAL CHIP  | 5.1K   | 0.50% | 1/10W | R4032   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W |
| R1293   | 1-216-077-91 | RES-CHIP    | 15K    | 5%    | 1/10W | R4033   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1294   | 1-216-077-91 | RES-CHIP    | 15K    | 5%    | 1/10W | R4034   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1295   | 1-216-295-91 | SHORT       | 0      |       |       | R4035   | 1-216-063-91 | RES-CHIP    | 3.9K   | 5%    | 1/10W |
| R1296   | 1-216-295-91 | SHORT       | 0      |       |       | R4036   | 1-216-053-00 | RES-CHIP    | 1.5K   | 5%    | 1/10W |
| R1297   | 1-216-655-11 | METAL CHIP  | 1.5K   | 0.50% | 1/10W | R4037   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1298   | 1-216-666-11 | METAL CHIP  | 4.3K   | 0.50% | 1/10W | R4038   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1299   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R4039   | 1-216-105-91 | RES-CHIP    | 220K   | 5%    | 1/10W |
| R1300   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R4040   | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W |
| R1301   | 1-216-295-91 | SHORT       | 0      |       |       | R4041   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W |
| R1304   | 1-216-295-91 | SHORT       | 0      |       |       | R4042   | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W |
| R1305   | 1-216-671-11 | METAL CHIP  | 6.8K   | 0.50% | 1/10W | R4043   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1306   | 1-216-667-11 | METAL CHIP  | 4.7K   | 0.50% | 1/10W | R4044   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1308   | 1-216-671-11 | METAL CHIP  | 6.8K   | 0.50% | 1/10W | R4045   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1309   | 1-216-667-11 | METAL CHIP  | 4.7K   | 0.50% | 1/10W | R4046   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1311   | 1-216-667-11 | METAL CHIP  | 4.7K   | 0.50% | 1/10W | R4047   | 1-216-063-91 | RES-CHIP    | 3.9K   | 5%    | 1/10W |
| R1313   | 1-216-671-11 | METAL CHIP  | 6.8K   | 0.50% | 1/10W | R4048   | 1-216-650-11 | METAL CHIP  | 910    | 0.50% | 1/10W |
| R1314   | 1-216-093-91 | RES-CHIP    | 68K    | 5%    | 1/10W | R4049   | 1-216-626-11 | METAL CHIP  | 91     | 0.50% | 1/10W |
| R1315   | 1-216-683-11 | METAL CHIP  | 22K    | 0.50% | 1/10W | R4050   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W |
| R1316   | 1-216-669-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W | R4051   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1317   | 1-216-661-11 | METAL CHIP  | 2.7K   | 0.50% | 1/10W | R4052   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W |
| R1318   | 1-216-669-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W | R4053   | 1-216-624-11 | METAL CHIP  | 75     | 0.50% | 1/10W |
| R1319   | 1-216-683-11 | METAL CHIP  | 22K    | 0.50% | 1/10W | R4054   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R1320   | 1-216-661-11 | METAL CHIP  | 2.7K   | 0.50% | 1/10W | R4055   | 1-216-083-00 | RES-CHIP    | 27K    | 5%    | 1/10W |
| R2000   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R4056   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R2201   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R4057   | 1-216-065-91 | RES-CHIP    | 4.7K   | 5%    | 1/10W |
| R2202   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R4058   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R2203   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | R4059   | 1-216-053-00 | RES-CHIP    | 1.5K   | 5%    | 1/10W |
| R2500   | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W | R4060   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R2501   | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W | R4061   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R2502   | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W | R4062   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R2503   | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W | R4063   | 1-216-636-11 | METAL CHIP  | 240    | 0.50% | 1/10W |
| R2504   | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W | R4064   | 1-216-059-00 | RES-CHIP    | 2.7K   | 5%    | 1/10W |
| R4000   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | R4065   | 1-216-051-00 | RES-CHIP    | 1.2K   | 5%    | 1/10W |
| R4001   | 1-216-681-11 | METAL CHIP  | 18K    | 0.50% | 1/10W | R4066   | 1-216-664-11 | METAL CHIP  | 3.6K   | 0.50% | 1/10W |
| R4002   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W | R4067   | 1-216-636-11 | METAL CHIP  | 240    | 0.50% | 1/10W |
| R4003   | 1-216-055-00 | RES-CHIP    | 1.8K   | 5%    | 1/10W | R4068   | 1-216-659-11 | METAL CHIP  | 2.2K   | 0.50% | 1/10W |
| R4004   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R4069   | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R4005   | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W | R4070   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W |
| R4006   | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W | R4071   | 1-216-624-11 | METAL CHIP  | 75     | 0.50% | 1/10W |
| R4007   | 1-216-061-00 | RES-CHIP    | 3.3K   | 5%    | 1/10W | R4072   | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W |

| Ref.No. | Part No.     | Description | Remark |       |       | Ref.No.          | Part No.     | Description             | Remark        |       |       |
|---------|--------------|-------------|--------|-------|-------|------------------|--------------|-------------------------|---------------|-------|-------|
| R4073   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | R4141            | 1-216-069-00 | RES-CHIP                | 6.8K          | 5%    | 1/10W |
| R4074   | 1-216-063-91 | RES-CHIP    | 3.9K   | 5%    | 1/10W | R4142            | 1-216-677-11 | METAL CHIP              | 12K           | 0.50% | 1/10W |
| R4076   | 1-216-091-00 | RES-CHIP    | 56K    | 5%    | 1/10W | R4143            | 1-216-645-11 | METAL CHIP              | 560           | 0.50% | 1/10W |
| R4077   | 1-216-091-00 | RES-CHIP    | 56K    | 5%    | 1/10W | R4144            | 1-216-647-11 | METAL CHIP              | 680           | 0.50% | 1/10W |
| R4078   | 1-216-091-00 | RES-CHIP    | 56K    | 5%    | 1/10W | R4145            | 1-216-673-11 | METAL CHIP              | 8.2K          | 0.50% | 1/10W |
| R4079   | 1-216-091-00 | RES-CHIP    | 56K    | 5%    | 1/10W | <RESISTOR BLOCK> |              |                         |               |       |       |
| R4080   | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W | RB200            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4081   | 1-216-091-00 | RES-CHIP    | 56K    | 5%    | 1/10W | RB201            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4082   | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W | RB202            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4083   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | RB203            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4084   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | RB204            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4085   | 1-216-091-00 | RES-CHIP    | 56K    | 5%    | 1/10W | RB205            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4086   | 1-216-295-91 | SHORT       | 0      |       |       | RB206            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4088   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | RB207            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4089   | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W | RB208            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4090   | 1-216-069-00 | RES-CHIP    | 6.8K   | 5%    | 1/10W | RB209            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4091   | 1-216-049-91 | RES-CHIP    | 1K     | 5%    | 1/10W | RB210            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4092   | 1-216-682-11 | METAL CHIP  | 20K    | 0.50% | 1/10W | RB211            | 1-233-576-11 | RES, CHIP NETWORK       | 100           |       |       |
| R4093   | 1-216-025-91 | RES-CHIP    | 100    | 5%    | 1/10W | RB212            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4094   | 1-216-089-91 | RES-CHIP    | 47K    | 5%    | 1/10W | RB213            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4095   | 1-216-033-00 | RES-CHIP    | 220    | 5%    | 1/10W | RB214            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4096   | 1-216-133-00 | RES-CHIP    | 3.3M   | 5%    | 1/10W | RB215            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4097   | 1-216-644-11 | METAL CHIP  | 510    | 0.50% | 1/10W | RB216            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4098   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W | RB217            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4099   | 1-216-663-11 | METAL CHIP  | 3.3K   | 0.50% | 1/10W | RB218            | 1-233-575-11 | RES, CHIP NETWORK       | 22            |       |       |
| R4100   | 1-216-660-11 | METAL CHIP  | 2.4K   | 0.50% | 1/10W | RB219            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4101   | 1-216-663-11 | METAL CHIP  | 3.3K   | 0.50% | 1/10W | RB220            | 1-233-575-11 | RES, CHIP NETWORK       | 22            |       |       |
| R4102   | 1-216-097-91 | RES-CHIP    | 100K   | 5%    | 1/10W | RB221            | 1-233-575-11 | RES, CHIP NETWORK       | 22            |       |       |
| R4103   | 1-216-059-00 | RES-CHIP    | 2.7K   | 5%    | 1/10W | RB222            | 1-233-575-11 | RES, CHIP NETWORK       | 22            |       |       |
| R4104   | 1-216-031-00 | RES-CHIP    | 180    | 5%    | 1/10W | RB223            | 1-233-575-11 | RES, CHIP NETWORK       | 22            |       |       |
| R4105   | 1-216-057-00 | RES-CHIP    | 2.2K   | 5%    | 1/10W | RB224            | 1-233-575-11 | RES, CHIP NETWORK       | 22            |       |       |
| R4106   | 1-216-071-00 | RES-CHIP    | 8.2K   | 5%    | 1/10W | RB225            | 1-233-575-11 | RES, CHIP NETWORK       | 22            |       |       |
| R4107   | 1-216-053-00 | RES-CHIP    | 1.5K   | 5%    | 1/10W | RB226            | 1-233-575-11 | RES, CHIP NETWORK       | 22            |       |       |
| R4109   | 1-216-631-11 | METAL CHIP  | 150    | 0.50% | 1/10W | RB227            | 1-233-575-11 | RES, CHIP NETWORK       | 22            |       |       |
| R4110   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | RB228            | 1-233-575-11 | RES, CHIP NETWORK       | 22            |       |       |
| R4111   | 1-216-637-11 | METAL CHIP  | 270    | 0.50% | 1/10W | RB229            | 1-233-575-11 | RES, CHIP NETWORK       | 22            |       |       |
| R4112   | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W | RB230            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4113   | 1-216-631-11 | METAL CHIP  | 150    | 0.50% | 1/10W | RB231            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4114   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | RB232            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4115   | 1-216-043-91 | RES-CHIP    | 560    | 5%    | 1/10W | RB233            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4116   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | RB234            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4117   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | RB235            | 1-239-409-11 | RES, CHIP NETWORK       | 47 (3216)     |       |       |
| R4118   | 1-216-645-11 | METAL CHIP  | 560    | 0.50% | 1/10W | <THERMISTOR>     |              |                         |               |       |       |
| R4119   | 1-216-645-11 | METAL CHIP  | 560    | 0.50% | 1/10W | TH100            | 1-809-350-21 | THERMISTOR, NTC         | (2125)        |       |       |
| R4120   | 1-216-067-00 | RES-CHIP    | 5.6K   | 5%    | 1/10W | <CRYSTAL>        |              |                         |               |       |       |
| R4121   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | X200             | 1-527-722-00 | VIBRATOR, CRYSTAL       | (14.31818MHz) |       |       |
| R4122   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | X500             | 1-579-886-11 | VIBRATOR, CRYSTAL       | (32.768kHz)   |       |       |
| R4123   | 1-216-669-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W | X501             | 1-781-659-21 | VIBRATOR, CRYSTAL       | (12.288MHz)   |       |       |
| R4124   | 1-216-669-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W | X4000            | 1-760-457-11 | VIBRATOR, CRYSTAL (VCO) | (17.7MHz)     |       |       |
| R4125   | 1-216-699-91 | METAL CHIP  | 100K   | 0.50% | 1/10W | X4001            | 1-527-722-00 | VIBRATOR, CRYSTAL       | (14.3MHz)     |       |       |
| R4126   | 1-216-699-91 | METAL CHIP  | 100K   | 0.50% | 1/10W | X4002            | 1-579-583-11 | VIBRATOR, CERAMIC       | (500kHz)      |       |       |
| R4127   | 1-216-045-00 | RES-CHIP    | 680    | 5%    | 1/10W | X4003            | 1-577-611-11 | OSCILATOR, CERAMIC      | (500kHz)      |       |       |
| R4128   | 1-216-677-11 | METAL CHIP  | 12K    | 0.50% | 1/10W | *****            |              |                         |               |       |       |
| R4129   | 1-216-677-11 | METAL CHIP  | 12K    | 0.50% | 1/10W |                  |              |                         |               |       |       |
| R4130   | 1-216-295-91 | SHORT       | 0      |       |       |                  |              |                         |               |       |       |
| R4131   | 1-216-295-91 | SHORT       | 0      |       |       |                  |              |                         |               |       |       |
| R4132   | 1-216-295-91 | SHORT       | 0      |       |       |                  |              |                         |               |       |       |
| R4133   | 1-216-677-11 | METAL CHIP  | 12K    | 0.50% | 1/10W |                  |              |                         |               |       |       |
| R4134   | 1-216-677-11 | METAL CHIP  | 12K    | 0.50% | 1/10W |                  |              |                         |               |       |       |
| R4135   | 1-216-699-91 | METAL CHIP  | 100K   | 0.50% | 1/10W |                  |              |                         |               |       |       |
| R4136   | 1-216-699-91 | METAL CHIP  | 100K   | 0.50% | 1/10W |                  |              |                         |               |       |       |
| R4137   | 1-216-691-11 | METAL CHIP  | 47K    | 0.50% | 1/10W |                  |              |                         |               |       |       |
| R4138   | 1-216-679-11 | METAL CHIP  | 15K    | 0.50% | 1/10W |                  |              |                         |               |       |       |
| R4139   | 1-216-069-00 | RES-CHIP    | 6.8K   | 5%    | 1/10W |                  |              |                         |               |       |       |
| R4140   | 1-216-683-11 | METAL CHIP  | 22K    | 0.50% | 1/10W |                  |              |                         |               |       |       |

| Ref.No. | Part No.                         | Description                  | Remark |       |       |  |
|---------|----------------------------------|------------------------------|--------|-------|-------|--|
|         | * A-1131-596-A B1 MOUNT<br>***** |                              |        |       |       |  |
|         | <CAPACITOR>                      |                              |        |       |       |  |
| C401    | 1-126-603-11                     | ELECT CHIP                   | 4.7μF  | 20%   | 16V   |  |
| C402    | 1-126-603-11                     | ELECT CHIP                   | 4.7μF  | 20%   | 16V   |  |
| C403    | 1-126-603-11                     | ELECT CHIP                   | 4.7μF  | 20%   | 16V   |  |
| C404    | 1-164-004-11                     | CERAMIC CHIP                 | 0.1μF  | 10%   | 25V   |  |
| C405    | 1-124-779-00                     | ELECT CHIP                   | 10μF   | 20%   | 16V   |  |
| C406    | 1-164-004-11                     | CERAMIC CHIP                 | 0.1μF  | 10%   | 25V   |  |
| C407    | 1-124-779-00                     | ELECT CHIP                   | 10μF   | 20%   | 16V   |  |
| C408    | 1-164-004-11                     | CERAMIC CHIP                 | 0.1μF  | 10%   | 25V   |  |
| C409    | 1-124-779-00                     | ELECT CHIP                   | 10μF   | 20%   | 16V   |  |
| C410    | 1-163-243-11                     | CERAMIC CHIP                 | 47PF   | 5%    | 50V   |  |
| C411    | 1-164-004-11                     | CERAMIC CHIP                 | 0.1μF  | 10%   | 25V   |  |
| C412    | 1-163-251-11                     | CERAMIC CHIP                 | 100PF  | 5%    | 50V   |  |
| C413    | 1-164-004-11                     | CERAMIC CHIP                 | 0.1μF  | 10%   | 25V   |  |
| C414    | 1-164-004-11                     | CERAMIC CHIP                 | 0.1μF  | 10%   | 25V   |  |
| C415    | 1-163-251-11                     | CERAMIC CHIP                 | 100PF  | 5%    | 50V   |  |
| C416    | 1-163-243-11                     | CERAMIC CHIP                 | 47PF   | 5%    | 50V   |  |
|         | <CONNECTOR>                      |                              |        |       |       |  |
| CN401   | 1-774-551-11                     | CONNECTOR, BOARD TO BOARD 5P |        |       |       |  |
| CN402   | 1-774-551-11                     | CONNECTOR, BOARD TO BOARD 5P |        |       |       |  |
| CN403   | 1-506-468-11                     | PIN, CONNECTOR 3P            |        |       |       |  |
|         | <IC>                             |                              |        |       |       |  |
| IC401   | 8-759-239-55                     | IC TC74HC123AF(EL)           |        |       |       |  |
|         | <TRANSISTOR>                     |                              |        |       |       |  |
| Q401    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q402    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q403    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q404    | 8-729-026-49                     | TRANSISTOR 2SA1037AK-T146-QR |        |       |       |  |
| Q405    | 8-729-026-49                     | TRANSISTOR 2SA1037AK-T146-QR |        |       |       |  |
| Q406    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q407    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q408    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q409    | 8-729-026-49                     | TRANSISTOR 2SA1037AK-T146-QR |        |       |       |  |
| Q410    | 8-729-026-49                     | TRANSISTOR 2SA1037AK-T146-QR |        |       |       |  |
| Q411    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q412    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q413    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q414    | 8-729-026-49                     | TRANSISTOR 2SA1037AK-T146-QR |        |       |       |  |
| Q415    | 8-729-026-49                     | TRANSISTOR 2SA1037AK-T146-QR |        |       |       |  |
| Q416    | 8-729-026-49                     | TRANSISTOR 2SA1037AK-T146-QR |        |       |       |  |
| Q417    | 8-729-026-49                     | TRANSISTOR 2SA1037AK-T146-QR |        |       |       |  |
| Q418    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q419    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q420    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
| Q421    | 8-729-120-28                     | TRANSISTOR 2SC2412K-T-146-QR |        |       |       |  |
|         | <RESISTOR>                       |                              |        |       |       |  |
| R401    | 1-216-025-91                     | RES-CHIP                     | 100    | 5%    | 1/10W |  |
| R402    | 1-216-049-91                     | RES-CHIP                     | 1K     | 5%    | 1/10W |  |
| R403    | 1-216-667-11                     | METAL CHIP                   | 4.7K   | 0.50% | 1/10W |  |
| R404    | 1-216-661-11                     | METAL CHIP                   | 2.7K   | 0.50% | 1/10W |  |
| R405    | 1-216-025-91                     | RES-CHIP                     | 100    | 5%    | 1/10W |  |

| Ref.No.                                                                               | Part No.       | Description                                   | Remark |       |       |  |
|---------------------------------------------------------------------------------------|----------------|-----------------------------------------------|--------|-------|-------|--|
| R406                                                                                  | 1-216-049-91   | RES-CHIP                                      | 1K     | 5%    | 1/10W |  |
| R407                                                                                  | 1-216-661-11   | METAL CHIP                                    | 2.7K   | 0.50% | 1/10W |  |
| R408                                                                                  | 1-216-025-91   | RES-CHIP                                      | 100    | 5%    | 1/10W |  |
| R409                                                                                  | 1-216-049-91   | RES-CHIP                                      | 1K     | 5%    | 1/10W |  |
| R410                                                                                  | 1-216-667-11   | METAL CHIP                                    | 4.7K   | 0.50% | 1/10W |  |
| R411                                                                                  | 1-216-661-11   | METAL CHIP                                    | 2.7K   | 0.50% | 1/10W |  |
| R412                                                                                  | 1-216-025-91   | RES-CHIP                                      | 100    | 5%    | 1/10W |  |
| R413                                                                                  | 1-216-049-91   | RES-CHIP                                      | 1K     | 5%    | 1/10W |  |
| R414                                                                                  | 1-216-655-11   | METAL CHIP                                    | 1.5K   | 0.50% | 1/10W |  |
| R415                                                                                  | 1-216-661-11   | METAL CHIP                                    | 2.7K   | 0.50% | 1/10W |  |
| R416                                                                                  | 1-216-025-91   | RES-CHIP                                      | 100    | 5%    | 1/10W |  |
| R417                                                                                  | 1-216-049-91   | RES-CHIP                                      | 1K     | 5%    | 1/10W |  |
| R418                                                                                  | 1-216-667-11   | METAL CHIP                                    | 4.7K   | 0.50% | 1/10W |  |
| R419                                                                                  | 1-216-661-11   | METAL CHIP                                    | 2.7K   | 0.50% | 1/10W |  |
| R420                                                                                  | 1-216-025-91   | RES-CHIP                                      | 100    | 5%    | 1/10W |  |
| R421                                                                                  | 1-216-049-91   | RES-CHIP                                      | 1K     | 5%    | 1/10W |  |
| R422                                                                                  | 1-216-009-91   | RES-CHIP                                      | 22     | 5%    | 1/10W |  |
| R423                                                                                  | 1-216-009-91   | RES-CHIP                                      | 22     | 5%    | 1/10W |  |
| R424                                                                                  | 1-216-009-91   | RES-CHIP                                      | 22     | 5%    | 1/10W |  |
| R425                                                                                  | 1-216-651-11   | METAL CHIP                                    | 1K     | 0.50% | 1/10W |  |
| R426                                                                                  | 1-216-679-11   | METAL CHIP                                    | 15K    | 0.50% | 1/10W |  |
| R427                                                                                  | 1-216-677-11   | METAL CHIP                                    | 12K    | 0.50% | 1/10W |  |
| R428                                                                                  | 1-216-685-11   | METAL CHIP                                    | 27K    | 0.50% | 1/10W |  |
| R429                                                                                  | 1-216-699-91   | METAL CHIP                                    | 100K   | 0.50% | 1/10W |  |
| R431                                                                                  | 1-216-661-11   | METAL CHIP                                    | 2.7K   | 0.50% | 1/10W |  |
| R432                                                                                  | 1-216-655-11   | METAL CHIP                                    | 1.5K   | 0.50% | 1/10W |  |
| R433                                                                                  | 1-216-659-11   | METAL CHIP                                    | 2.2K   | 0.50% | 1/10W |  |
| R434                                                                                  | 1-216-659-11   | METAL CHIP                                    | 2.2K   | 0.50% | 1/10W |  |
| R435                                                                                  | 1-216-675-91   | METAL CHIP                                    | 10K    | 0.50% | 1/10W |  |
| R436                                                                                  | 1-216-677-11   | METAL CHIP                                    | 12K    | 0.50% | 1/10W |  |
| *****                                                                                 |                |                                               |        |       |       |  |
| * A-1311-854-A G1 MOUNT<br>*****                                                      |                |                                               |        |       |       |  |
| <CONNECTOR>                                                                           |                |                                               |        |       |       |  |
| CN5001                                                                                | 1-506-488-11   | PIN, CONNECTOR 9P                             |        |       |       |  |
| CN5002                                                                                | 1-506-483-21   | PIN, CONNECTOR 4P                             |        |       |       |  |
| CN5003                                                                                | * 1-564-013-11 | PIN, CONNECTOR 3P                             |        |       |       |  |
| CN5004                                                                                | 1-506-490-21   | PIN, CONNECTOR 11P                            |        |       |       |  |
| CN5005                                                                                | 1-506-489-11   | PIN, CONNECTOR 10P                            |        |       |       |  |
| CN5006                                                                                | * 1-785-108-11 | PIN, CONNECTOR (PC BOARD) 40P<br>(PFM-500A3W) |        |       |       |  |
| CN5006                                                                                | * 1-785-109-11 | SOCKET, CONNECTOR 40P<br>(PFM-510A2W)         |        |       |       |  |
| *****                                                                                 |                |                                               |        |       |       |  |
| * A-1311-857-A G2 MOUNT (PFM-500A3W)<br>* A-1311-853-A G2 MOUNT (PFM-510A2W)<br>***** |                |                                               |        |       |       |  |
| <CONNECTOR>                                                                           |                |                                               |        |       |       |  |
| CN4001                                                                                | * 1-564-517-11 | PLUG, CONNECTOR 2P                            |        |       |       |  |
| CN4002                                                                                | * 1-564-519-11 | PLUG, CONNECTOR 4P                            |        |       |       |  |
| CN4003                                                                                | * 1-564-524-11 | PLUG, CONNECTOR 9P                            |        |       |       |  |
| CN4004                                                                                | * 1-564-519-11 | PLUG, CONNECTOR 4P                            |        |       |       |  |
| CN4005                                                                                | * 1-564-519-11 | PLUG, CONNECTOR 4P                            |        |       |       |  |

| Ref.No.                 | Part No.       | Description                   | Remark        | Ref.No.          | Part No.       | Description                   | Remark |
|-------------------------|----------------|-------------------------------|---------------|------------------|----------------|-------------------------------|--------|
| CN4006                  | * 1-564-594-11 | PLUG, CONNECTOR 15P           |               | C183             | 1-136-177-00   | MYLAR 1μF 5% 50V              |        |
| CN4007                  | * 1-785-109-11 | SOCKET, CONNECTOR 40P         |               | C184             | 1-136-177-00   | MYLAR 1μF 5% 50V              |        |
|                         |                | (PFM-500A3W)                  |               | C187             | 1-104-665-11   | ELECT 100μF 20% 10V           |        |
| CN4007                  | * 1-785-108-11 | PIN, CONNECTOR (PC BOARD) 40P |               | C191             | 1-136-177-00   | MYLAR 1μF 5% 50V              |        |
|                         |                | (PFM-510A2W)                  |               | C192             | 1-136-177-00   | MYLAR 1μF 5% 50V              |        |
| CN4008                  | * 1-564-520-11 | PLUG, CONNECTOR 5P            |               | C193             | 1-136-177-00   | MYLAR 1μF 5% 50V              |        |
| *****                   |                |                               |               | C194             | 1-136-177-00   | MYLAR 1μF 5% 50V              |        |
| * A-1372-829-A H1 MOUNT |                |                               |               | C200             | 1-163-038-91   | CERAMIC CHIP 0.1μF 25V        |        |
| *****                   |                |                               |               | C201             | 1-163-038-91   | CERAMIC CHIP 0.1μF 25V        |        |
| <CAPACITOR>             |                |                               |               | <CONNECTOR>      |                |                               |        |
| C101                    | 1-128-526-11   | ELECT                         | 100μF 20% 16V | CN101            | * 1-506-477-11 | PIN, CONNECTOR 12P            |        |
| C102                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | CN102            | 1-506-473-11   | PIN, CONNECTOR 8P             |        |
| C103                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | CN103            | * 1-564-005-11 | PIN, CONNECTOR 6P             |        |
| C104                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | CN104            | * 1-774-523-11 | PIN, CONNECTOR (PC BOARD) 64P |        |
| C105                    | 1-128-526-11   | ELECT                         | 100μF 20% 16V | CN105            | 1-506-472-11   | PIN, CONNECTOR 7P             |        |
| C106                    | 1-163-113-00   | CERAMIC CHIP                  | 68PF 5% 50V   | <DIODE>          |                |                               |        |
| C107                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | D101             | 8-719-105-91   | DIODE RD5.6M-T1B2             |        |
| C108                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | D102             | 8-719-105-91   | DIODE RD5.6M-T1B2             |        |
| C109                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | D103             | 8-719-105-91   | DIODE RD5.6M-T1B2             |        |
| C110                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | D104             | 8-719-105-91   | DIODE RD5.6M-T1B2             |        |
| C111                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | D181             | 8-719-073-01   | DIODE MA111-TX                |        |
| C112                    | 1-107-701-11   | ELECT                         | 47μF 20% 16V  | D182             | 8-719-073-01   | DIODE MA111-TX                |        |
| C113                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | D183             | 8-719-073-01   | DIODE MA111-TX                |        |
| C114                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | D184             | 8-719-158-49   | DIODE UDZ-TE-17-12B           |        |
| C115                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | D191             | 8-719-073-01   | DIODE MA111-TX                |        |
| C116                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | D192             | 8-719-073-01   | DIODE MA111-TX                |        |
| C117                    | 1-107-701-11   | ELECT                         | 47μF 20% 16V  | D193             | 8-719-073-01   | DIODE MA111-TX                |        |
| C118                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | D194             | 8-719-158-49   | DIODE UDZ-TE-17-12B           |        |
| C119                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | <IC>             |                |                               |        |
| C120                    | 1-128-526-11   | ELECT                         | 100μF 20% 16V | IC101            | 8-759-360-07   | IC BA7657F-E2                 |        |
| C121                    | 1-163-113-00   | CERAMIC CHIP                  | 68PF 5% 50V   | IC102            | 8-759-383-61   | IC TL026CPS-E05               |        |
| C122                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | IC103            | 8-759-383-61   | IC TL026CPS-E05               |        |
| C123                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | IC104            | 8-759-970-89   | IC BA10358F-T2                |        |
| C124                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | IC105            | 8-759-390-38   | IC LM2940CT-12FL91            |        |
| C125                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | IC106            | 8-759-366-35   | IC TC4W66F(TE12R)             |        |
| C126                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | IC107            | 8-759-366-35   | IC TC4W66F(TE12R)             |        |
| C127                    | 1-107-701-11   | ELECT                         | 47μF 20% 16V  | <CHIP CONDUCTOR> |                |                               |        |
| C128                    | 1-107-716-11   | ELECT                         | 33μF 20% 16V  | JR102            | 1-216-295-91   | SHORT 0                       |        |
| C129                    | 1-107-716-11   | ELECT                         | 33μF 20% 16V  | <COIL>           |                |                               |        |
| C130                    | 1-107-716-11   | ELECT                         | 33μF 20% 16V  | L101             | 1-408-615-31   | INDUCTOR 100μH                |        |
| C131                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | <TRANSISTOR>     |                |                               |        |
| C132                    | 1-128-526-11   | ELECT                         | 100μF 20% 16V | Q101             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C133                    | 1-128-526-11   | ELECT                         | 100μF 20% 16V | Q102             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C134                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | Q103             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C135                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | Q104             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C136                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | Q105             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C137                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | Q106             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C138                    | 1-104-664-11   | ELECT                         | 47μF 20% 16V  | Q107             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C139                    | 1-163-263-11   | CERAMIC CHIP                  | 330PF 5% 50V  | Q108             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C140                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | Q109             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C141                    | 1-126-933-11   | ELECT                         | 100μF 20% 16V | Q110             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C142                    | 1-126-933-11   | ELECT                         | 100μF 20% 16V | Q111             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C143                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | Q112             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C144                    | 1-164-004-11   | CERAMIC CHIP                  | 0.1μF 10% 25V | Q113             | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR  |        |
| C145                    | 1-104-664-11   | ELECT                         | 47μF 20% 25V  |                  |                |                               |        |
| C146                    | 1-163-253-11   | CERAMIC CHIP                  | 120PF 5% 50V  |                  |                |                               |        |
| C147                    | 1-163-253-11   | CERAMIC CHIP                  | 120PF 5% 50V  |                  |                |                               |        |
| C148                    | 1-163-253-11   | CERAMIC CHIP                  | 120PF 5% 50V  |                  |                |                               |        |
| C181                    | 1-136-177-00   | MYLAR                         | 1μF 5% 50V    |                  |                |                               |        |
| C182                    | 1-136-177-00   | MYLAR                         | 1μF 5% 50V    |                  |                |                               |        |

| Ref.No. | Part No.     | Description                  | Remark |       |       | Ref.No. | Part No.     | Description | Remark |       |       |
|---------|--------------|------------------------------|--------|-------|-------|---------|--------------|-------------|--------|-------|-------|
| Q114    | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR |        |       |       | R156    | 1-216-645-11 | METAL CHIP  | 560    | 0.50% | 1/10W |
| Q181    | 8-729-216-22 | TRANSISTOR 2SA1037K-T-146-S  |        |       |       | R157    | 1-216-643-11 | METAL CHIP  | 470    | 0.50% | 1/10W |
|         |              |                              |        |       |       | R158    | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W |
| Q182    | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        |       |       | R159    | 1-216-669-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W |
| Q191    | 8-729-216-22 | TRANSISTOR 2SA1037K-T-146-S  |        |       |       | R160    | 1-216-657-11 | METAL CHIP  | 1.8K   | 0.50% | 1/10W |
| Q192    | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        |       |       |         |              |             |        |       |       |
| Q200    | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        |       |       | R161    | 1-218-776-11 | METAL CHIP  | 1M     | 0.50% | 1/10W |
| Q201    | 1-801-806-11 | TRANSISTOR DTC144EKA-T146    |        |       |       | R162    | 1-218-776-11 | METAL CHIP  | 1M     | 0.50% | 1/10W |
|         |              |                              |        |       |       | R163    | 1-218-776-11 | METAL CHIP  | 1M     | 0.50% | 1/10W |
|         |              |                              |        |       |       | R164    | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W |
|         |              |                              |        |       |       | R165    | 1-216-627-11 | METAL CHIP  | 100    | 0.50% | 1/10W |
|         |              | <RESISTOR>                   |        |       |       |         |              |             |        |       |       |
| R101    | 1-216-675-91 | METAL CHIP                   | 10K    | 0.50% | 1/10W | R166    | 1-216-619-11 | METAL CHIP  | 47     | 0.50% | 1/10W |
| R102    | 1-216-669-11 | METAL CHIP                   | 5.6K   | 0.50% | 1/10W | R167    | 1-216-619-11 | METAL CHIP  | 47     | 0.50% | 1/10W |
| R103    | 1-216-649-11 | METAL CHIP                   | 820    | 0.50% | 1/10W | R168    | 1-216-619-11 | METAL CHIP  | 47     | 0.50% | 1/10W |
| R104    | 1-216-667-11 | METAL CHIP                   | 4.7K   | 0.50% | 1/10W | R169    | 1-216-631-11 | METAL CHIP  | 150    | 0.50% | 1/10W |
| R105    | 1-216-667-11 | METAL CHIP                   | 4.7K   | 0.50% | 1/10W | R170    | 1-216-631-11 | METAL CHIP  | 150    | 0.50% | 1/10W |
|         |              |                              |        |       |       |         |              |             |        |       |       |
| R106    | 1-216-667-11 | METAL CHIP                   | 4.7K   | 0.50% | 1/10W | R171    | 1-216-631-11 | METAL CHIP  | 150    | 0.50% | 1/10W |
| R107    | 1-216-639-11 | METAL CHIP                   | 330    | 0.50% | 1/10W | R172    | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R108    | 1-216-667-11 | METAL CHIP                   | 4.7K   | 0.50% | 1/10W | R173    | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R109    | 1-216-667-11 | METAL CHIP                   | 4.7K   | 0.50% | 1/10W | R174    | 1-216-681-11 | METAL CHIP  | 18K    | 0.50% | 1/10W |
| R110    | 1-216-639-11 | METAL CHIP                   | 330    | 0.50% | 1/10W | R175    | 1-216-657-11 | METAL CHIP  | 1.8K   | 0.50% | 1/10W |
|         |              |                              |        |       |       |         |              |             |        |       |       |
| R111    | 1-216-669-11 | METAL CHIP                   | 5.6K   | 0.50% | 1/10W | R176    | 1-216-669-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W |
| R112    | 1-216-669-11 | METAL CHIP                   | 5.6K   | 0.50% | 1/10W | R177    | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R113    | 1-216-651-11 | METAL CHIP                   | 1K     | 0.50% | 1/10W | R178    | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R114    | 1-216-651-11 | METAL CHIP                   | 1K     | 0.50% | 1/10W | R179    | 1-216-675-91 | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R115    | 1-216-627-11 | METAL CHIP                   | 100    | 0.50% | 1/10W | R180    | 1-216-677-11 | METAL CHIP  | 12K    | 0.50% | 1/10W |
|         |              |                              |        |       |       |         |              |             |        |       |       |
| R116    | 1-216-641-11 | METAL CHIP                   | 390    | 0.50% | 1/10W | R181    | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R117    | 1-216-619-11 | METAL CHIP                   | 47     | 0.50% | 1/10W | R182    | 1-216-619-11 | METAL CHIP  | 47     | 0.50% | 1/10W |
| R118    | 1-216-641-11 | METAL CHIP                   | 390    | 0.50% | 1/10W | R183    | 1-216-629-11 | METAL CHIP  | 120    | 0.50% | 1/10W |
| R119    | 1-216-645-11 | METAL CHIP                   | 560    | 0.50% | 1/10W | R184    | 1-216-629-11 | METAL CHIP  | 120    | 0.50% | 1/10W |
| R120    | 1-216-643-11 | METAL CHIP                   | 470    | 0.50% | 1/10W | R185    | 1-216-629-11 | METAL CHIP  | 120    | 0.50% | 1/10W |
|         |              |                              |        |       |       |         |              |             |        |       |       |
| R121    | 1-216-675-91 | METAL CHIP                   | 10K    | 0.50% | 1/10W | R188    | 1-216-081-00 | RES-CHIP    | 22K    | 5%    | 1/10W |
| R122    | 1-216-669-11 | METAL CHIP                   | 5.6K   | 0.50% | 1/10W | R191    | 1-216-699-91 | METAL CHIP  | 100K   | 0.50% | 1/10W |
| R123    | 1-216-657-11 | METAL CHIP                   | 1.8K   | 0.50% | 1/10W | R192    | 1-216-693-11 | METAL CHIP  | 56K    | 0.50% | 1/10W |
| R124    | 1-216-675-91 | METAL CHIP                   | 10K    | 0.50% | 1/10W | R193    | 1-216-695-11 | METAL CHIP  | 68K    | 0.50% | 1/10W |
| R125    | 1-216-669-11 | METAL CHIP                   | 5.6K   | 0.50% | 1/10W | R194    | 1-216-659-11 | METAL CHIP  | 2.2K   | 0.50% | 1/10W |
|         |              |                              |        |       |       |         |              |             |        |       |       |
| R126    | 1-216-649-11 | METAL CHIP                   | 820    | 0.50% | 1/10W | R195    | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R127    | 1-216-633-11 | METAL CHIP                   | 180    | 0.50% | 1/10W | R196    | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R128    | 1-216-649-11 | METAL CHIP                   | 820    | 0.50% | 1/10W | R197    | 1-216-679-11 | METAL CHIP  | 15K    | 0.50% | 1/10W |
| R129    | 1-216-619-11 | METAL CHIP                   | 47     | 0.50% | 1/10W | R201    | 1-216-699-91 | METAL CHIP  | 100K   | 0.50% | 1/10W |
| R130    | 1-216-641-11 | METAL CHIP                   | 390    | 0.50% | 1/10W | R202    | 1-216-693-11 | METAL CHIP  | 56K    | 0.50% | 1/10W |
|         |              |                              |        |       |       |         |              |             |        |       |       |
| R131    | 1-216-637-11 | METAL CHIP                   | 270    | 0.50% | 1/10W | R203    | 1-216-695-11 | METAL CHIP  | 68K    | 0.50% | 1/10W |
| R132    | 1-216-659-11 | METAL CHIP                   | 2.2K   | 0.50% | 1/10W | R204    | 1-216-659-11 | METAL CHIP  | 2.2K   | 0.50% | 1/10W |
| R133    | 1-216-645-11 | METAL CHIP                   | 560    | 0.50% | 1/10W | R205    | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R134    | 1-216-643-11 | METAL CHIP                   | 470    | 0.50% | 1/10W | R206    | 1-216-651-11 | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R135    | 1-216-675-91 | METAL CHIP                   | 10K    | 0.50% | 1/10W | R207    | 1-216-679-11 | METAL CHIP  | 15K    | 0.50% | 1/10W |
|         |              |                              |        |       |       |         |              |             |        |       |       |
| R136    | 1-216-669-11 | METAL CHIP                   | 5.6K   | 0.50% | 1/10W | R210    | 1-216-619-11 | METAL CHIP  | 47     | 0.50% | 1/10W |
| R137    | 1-216-657-11 | METAL CHIP                   | 1.8K   | 0.50% | 1/10W | R211    | 1-216-645-11 | METAL CHIP  | 560    | 0.50% | 1/10W |
| R138    | 1-216-675-91 | METAL CHIP                   | 10K    | 0.50% | 1/10W | R212    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R139    | 1-216-669-11 | METAL CHIP                   | 5.6K   | 0.50% | 1/10W | R213    | 1-216-657-11 | METAL CHIP  | 1.8K   | 0.50% | 1/10W |
| R140    | 1-216-649-11 | METAL CHIP                   | 820    | 0.50% | 1/10W | R214    | 1-216-613-11 | METAL CHIP  | 27     | 0.50% | 1/10W |
|         |              |                              |        |       |       |         |              |             |        |       |       |
| R141    | 1-216-667-11 | METAL CHIP                   | 4.7K   | 0.50% | 1/10W | R215    | 1-216-649-11 | METAL CHIP  | 820    | 0.50% | 1/10W |
| R142    | 1-216-667-11 | METAL CHIP                   | 4.7K   | 0.50% | 1/10W | R216    | 1-216-653-11 | METAL CHIP  | 1.2K   | 0.50% | 1/10W |
| R143    | 1-216-667-11 | METAL CHIP                   | 4.7K   | 0.50% | 1/10W | R217    | 1-216-671-11 | METAL CHIP  | 6.8K   | 0.50% | 1/10W |
| R144    | 1-216-639-11 | METAL CHIP                   | 330    | 0.50% | 1/10W | R218    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
| R145    | 1-216-667-11 | METAL CHIP                   | 4.7K   | 0.50% | 1/10W | R219    | 1-216-073-00 | RES-CHIP    | 10K    | 5%    | 1/10W |
|         |              |                              |        |       |       |         |              |             |        |       |       |
| R146    | 1-216-667-11 | METAL CHIP                   | 4.7K   | 0.50% | 1/10W |         |              |             |        |       |       |
| R147    | 1-216-639-11 | METAL CHIP                   | 330    | 0.50% | 1/10W |         |              |             |        |       |       |
| R148    | 1-216-669-11 | METAL CHIP                   | 5.6K   | 0.50% | 1/10W |         |              |             |        |       |       |
| R149    | 1-216-669-11 | METAL CHIP                   | 5.6K   | 0.50% | 1/10W |         |              |             |        |       |       |
| R150    | 1-216-651-11 | METAL CHIP                   | 1K     | 0.50% | 1/10W |         |              |             |        |       |       |
|         |              |                              |        |       |       |         |              |             |        |       |       |
| R151    | 1-216-651-11 | METAL CHIP                   | 1K     | 0.50% | 1/10W |         |              |             |        |       |       |
| R152    | 1-216-619-11 | METAL CHIP                   | 47     | 0.50% | 1/10W |         |              |             |        |       |       |
| R153    | 1-216-641-11 | METAL CHIP                   | 390    | 0.50% | 1/10W |         |              |             |        |       |       |
| R154    | 1-216-619-11 | METAL CHIP                   | 47     | 0.50% | 1/10W |         |              |             |        |       |       |
| R155    | 1-216-639-11 | METAL CHIP                   | 330    | 0.50% | 1/10W |         |              |             |        |       |       |

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| Ref.No. | Part No.       | Description          | Remark  |     |      |      | Ref.No.      | Part No.                    | Description               | Remark |       |       |  |
|---------|----------------|----------------------|---------|-----|------|------|--------------|-----------------------------|---------------------------|--------|-------|-------|--|
|         | * A-1372-828-A | H6 MOUNT<br>*****    |         |     |      |      |              |                             | <COIL>                    |        |       |       |  |
|         |                | <CAPACITOR>          |         |     |      |      | L701         | 1-408-615-31                | INDUCTOR                  | 100μH  |       |       |  |
|         |                |                      |         |     |      |      | L702         | 1-408-615-31                | INDUCTOR                  | 100μH  |       |       |  |
|         |                |                      |         |     |      |      |              |                             | <TRANSISTOR>              |        |       |       |  |
| C701    | 1-164-004-11   | CERAMIC CHIP         | 0.1μF   | 10% | 25V  |      |              |                             |                           |        |       |       |  |
| C702    | 1-126-396-11   | ELECT CHIP           | 47μF    | 20% | 16V  |      |              |                             |                           |        |       |       |  |
| C703    | 1-126-392-11   | ELECT CHIP           | 100μF   | 20% | 6.3V | Q701 | 8-729-027-38 | TRANSISTOR DTA144EKA-T146   |                           |        |       |       |  |
| C704    | 1-164-004-11   | CERAMIC CHIP         | 0.1μF   | 10% | 25V  | Q702 | 1-801-806-11 | TRANSISTOR DTC144EKA-T146   |                           |        |       |       |  |
| C705    | 1-164-004-11   | CERAMIC CHIP         | 0.1μF   | 10% | 25V  | Q703 | 1-801-806-11 | TRANSISTOR DTC144EKA-T146   |                           |        |       |       |  |
|         |                |                      |         |     |      |      | Q704         | 8-729-027-38                | TRANSISTOR DTA144EKA-T146 |        |       |       |  |
| C706    | 1-164-004-11   | CERAMIC CHIP         | 0.1μF   | 10% | 25V  | Q705 | 1-801-806-11 | TRANSISTOR DTC144EKA-T146   |                           |        |       |       |  |
| C707    | 1-163-037-11   | CERAMIC CHIP         | 0.022μF | 10% | 50V  |      |              |                             |                           |        |       |       |  |
| C708    | 1-164-004-11   | CERAMIC CHIP         | 0.1μF   | 10% | 25V  | Q706 | 8-729-027-38 | TRANSISTOR DTA144EKA-T146   |                           |        |       |       |  |
| C709    | 1-126-392-11   | ELECT CHIP           | 100μF   | 20% | 6.3V | Q707 | 1-801-806-11 | TRANSISTOR DTC144EKA-T146   |                           |        |       |       |  |
| C710    | 1-126-396-11   | ELECT CHIP           | 47μF    | 20% | 16V  | Q708 | 8-729-901-98 | TRANSISTOR 2SA1036K-T-146-R |                           |        |       |       |  |
|         |                |                      |         |     |      |      | Q709         | 1-801-806-11                | TRANSISTOR DTC144EKA-T146 |        |       |       |  |
| C711    | 1-163-009-11   | CERAMIC CHIP         | 0.001μF | 10% | 50V  | Q710 | 1-801-806-11 | TRANSISTOR DTC144EKA-T146   |                           |        |       |       |  |
| C712    | 1-126-392-11   | ELECT CHIP           | 100μF   | 20% | 6.3V |      |              |                             |                           |        |       |       |  |
| C713    | 1-163-021-91   | CERAMIC CHIP         | 0.01μF  | 10% | 50V  | Q711 | 8-729-901-98 | TRANSISTOR 2SA1036K-T-146-R |                           |        |       |       |  |
| C714    | 1-163-021-91   | CERAMIC CHIP         | 0.01μF  | 10% | 50V  |      |              |                             |                           |        |       |       |  |
| C715    | 1-163-021-91   | CERAMIC CHIP         | 0.01μF  | 10% | 50V  |      |              | <RESISTOR>                  |                           |        |       |       |  |
|         |                | <CONNECTOR>          |         |     |      |      | R701         | 1-216-037-00                | RES-CHIP                  | 330    | 5%    | 1/10W |  |
| CN701   | * 1-506-477-11 | PIN, CONNECTOR 12P   |         |     |      |      | R702         | 1-216-294-00                | RES-CHIP                  | 10M    | 5%    | 1/8W  |  |
| CN702   | 1-506-472-11   | PIN, CONNECTOR 7P    |         |     |      |      | R703         | 1-216-049-91                | RES-CHIP                  | 1K     | 5%    | 1/10W |  |
| CN703   | * 1-564-005-11 | PIN, CONNECTOR 6P    |         |     |      |      | R704         | 1-216-049-91                | RES-CHIP                  | 1K     | 5%    | 1/10W |  |
| CN704   | 1-506-474-11   | PIN, CONNECTOR 9P    |         |     |      |      | R705         | 1-216-049-91                | RES-CHIP                  | 1K     | 5%    | 1/10W |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                | <DIODE>              |         |     |      |      | R706         | 1-216-009-91                | RES-CHIP                  | 22     | 5%    | 1/10W |  |
| D701    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B |         |     |      |      | R707         | 1-216-009-91                | RES-CHIP                  | 22     | 5%    | 1/10W |  |
| D702    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      | R708         | 1-216-009-91                | RES-CHIP                  | 22     | 5%    | 1/10W |  |
| D703    | 8-719-978-04   | DIODE DTZ-TT11-3.3B  |         |     |      |      | R709         | 1-216-009-91                | RES-CHIP                  | 22     | 5%    | 1/10W |  |
| D704    | 8-719-978-04   | DIODE DTZ-TT11-3.3B  |         |     |      |      | R710         | 1-216-005-00                | RES-CHIP                  | 15     | 5%    | 1/10W |  |
| D705    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      | R711         | 1-216-009-91                | RES-CHIP                  | 22     | 5%    | 1/10W |  |
| D706    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      | R712         | 1-216-097-91                | RES-CHIP                  | 100K   | 5%    | 1/10W |  |
| D707    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      | R713         | 1-216-089-91                | RES-CHIP                  | 47K    | 5%    | 1/10W |  |
| D708    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      | R714         | 1-216-049-91                | RES-CHIP                  | 1K     | 5%    | 1/10W |  |
| D709    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      | R715         | 1-216-049-91                | RES-CHIP                  | 1K     | 5%    | 1/10W |  |
| D710    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      | R717         | 1-216-049-91                | RES-CHIP                  | 1K     | 5%    | 1/10W |  |
| D711    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      | R718         | 1-249-381-11                | CARBON                    | 1      | 5%    | 1/4W  |  |
| D712    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      | R719         | 1-216-089-91                | RES-CHIP                  | 47K    | 5%    | 1/10W |  |
| D713    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      | R720         | 1-216-073-00                | RES-CHIP                  | 10K    | 5%    | 1/10W |  |
| D714    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      | R721         | 1-216-065-91                | RES-CHIP                  | 4.7K   | 5%    | 1/10W |  |
| D715    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      | R722         | 1-216-073-00                | RES-CHIP                  | 10K    | 5%    | 1/10W |  |
| D716    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B |         |     |      |      | R723         | 1-216-089-91                | RES-CHIP                  | 47K    | 5%    | 1/10W |  |
| D717    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B |         |     |      |      | R724         | 1-216-073-00                | RES-CHIP                  | 10K    | 5%    | 1/10W |  |
| D718    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B |         |     |      |      | R725         | 1-216-065-91                | RES-CHIP                  | 4.7K   | 5%    | 1/10W |  |
| D719    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      | R726         | 1-216-073-00                | RES-CHIP                  | 10K    | 5%    | 1/10W |  |
| D720    | 8-719-073-01   | DIODE MA111-TX       |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      | R727         | 1-216-627-11                | METAL CHIP                | 100    | 0.50% | 1/10W |  |
| D721    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B |         |     |      |      | R728         | 1-216-671-11                | METAL CHIP                | 6.8K   | 0.50% | 1/10W |  |
| D722    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B |         |     |      |      | R729         | 1-216-025-91                | RES-CHIP                  | 100    | 5%    | 1/10W |  |
| D723    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B |         |     |      |      | R730         | 1-216-659-11                | METAL CHIP                | 2.2K   | 0.50% | 1/10W |  |
| D724    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B |         |     |      |      |              |                             | <CRYSTAL>                 |        |       |       |  |
| D725    | 8-719-158-15   | DIODE UDZ-TE-17-5.6B |         |     |      |      | X1           | 1-577-358-21                | VIBRATOR, CERAMIC (4MHz)  |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
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|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
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|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
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|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
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|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |
|         |                |                      |         |     |      |      |              |                             |                           |        |       |       |  |

# APS-132 M

| Ref.No. | Part No.       | Description                                       | Remark | Ref.No. | Part No.       | Description             | Remark                             |
|---------|----------------|---------------------------------------------------|--------|---------|----------------|-------------------------|------------------------------------|
|         | * 1-468-447-11 | SWITCHING REGULATOR<br>(APS-132 M BOARD)<br>***** |        |         |                | <TRANSISTOR>            |                                    |
|         |                | HEAT SINK A ASSY                                  |        | Q105    | 8-729-047-46   | TRANSISTOR FS7KM-16A    |                                    |
|         | 2-434-993-21   | SCREW (3X6), RS TIGHT SPRING WASHER               |        | Q152    | 8-729-039-41   | TRANSISTOR FS10KM-10    |                                    |
|         |                | <DIODE>                                           |        | Q153    | 8-729-039-41   | TRANSISTOR FS10KM-10    |                                    |
| D101    | △ 8-719-073-32 | DIODE D25XB60                                     |        |         |                | HEAT SINK E ASSY        |                                    |
| D102    | 8-719-073-56   | TRIAC BT139X-600                                  |        |         |                | 2-434-993-21            | SCREW (3X6), RS TIGHT SPRINGWASHER |
| D104    | 8-719-073-58   | DIODE 20JL2C41A                                   |        |         |                | <DIODE>                 |                                    |
| D105    | 8-719-073-58   | DIODE 20JL2C41A                                   |        | D400    | 8-719-073-58   | DIODE 20JL2C41A         |                                    |
|         |                | <TRANSISTOR>                                      |        | D401    | 8-719-073-58   | DIODE 20JL2C41A         |                                    |
| Q100    | 8-729-035-65   | TRANSISTOR 2SK2370(2)                             |        | D604    | 8-719-077-10   | DIODE 20FL2C41A         |                                    |
| Q101    | 8-729-035-65   | TRANSISTOR 2SK2370(2)                             |        |         |                | <CAPACITOR>             |                                    |
| Q102    | 8-729-035-65   | TRANSISTOR 2SK2370(2)                             |        | C100    | △ 1-115-380-91 | CERAMIC 100pF 10%       | 125V                               |
|         |                | <THERMISTOR>                                      |        | C101    | △ 1-115-380-91 | CERAMIC 100pF 10%       | 125V                               |
| THP100  | 1-809-789-61   | THERMISTOR, POSITIVE                              |        | C102    | △ 1-113-920-91 | CERAMIC 2200pF 20%      | 250V                               |
| THP101  | 1-809-789-51   | THERMISTOR, POSITIVE                              |        | C103    | △ 1-113-920-91 | CERAMIC 2200pF 20%      | 250V                               |
|         |                | HEAT SINK B ASSY                                  |        | C104    | △ 1-131-955-51 | FILM 1.5μF 10%          | 275V                               |
|         | 2-434-993-21   | SCREW (3X6), RS TIGHT SPRINGWASHER                |        | C105    | △ 1-125-933-51 | FILM 1μF 10%            | 275V                               |
|         |                | <TRANSISTOR>                                      |        | C107    | △ 1-125-933-51 | FILM 1μF 10%            | 275V                               |
| Q502    | 8-729-035-65   | TRANSISTOR 2SK2370(2)                             |        | C108    | 1-163-021-91   | CERAMIC CHIP 0.01μF 10% | 50V                                |
| Q503    | 8-729-035-65   | TRANSISTOR 2SK2370(2)                             |        | C109    | 1-127-822-51   | FILM 1μF 10%            | 420V                               |
| Q702    | 8-729-035-65   | TRANSISTOR 2SK2370(2)                             |        | C110    | 1-127-822-51   | FILM 1μF 10%            | 420V                               |
| Q703    | 8-729-035-65   | TRANSISTOR 2SK2370(2)                             |        | C111    | 1-127-822-51   | FILM 1μF 10%            | 420V                               |
|         |                | HEAT SINK C ASSY                                  |        | C112    | 1-165-127-11   | CERAMIC 470pF 10%       | 500V                               |
|         | 2-434-993-21   | SCREW (3X6), RS TIGHT SPRINGWASHER                |        | C113    | 1-165-127-11   | CERAMIC 470pF 10%       | 500V                               |
|         | 2-625-794-01   | RUBBER (TO-3P), INSULATING                        |        | C114    | 1-117-716-51   | FILM 2.2μF 10%          | 420V                               |
|         |                | <DIODE>                                           |        | C115    | 1-131-942-11   | ELECT 270μF 30%         | 450V                               |
| D200    | 8-719-062-31   | DIODE 20DL2C41A                                   |        | C116    | 1-131-942-11   | ELECT 270μF 30%         | 450V                               |
| D250    | 8-719-061-49   | DIODE FCH20A10                                    |        | C117    | 1-113-920-11   | CERAMIC 2200pF 20%      | 250V                               |
| D251    | 8-719-075-55   | DIODE FCH30A06                                    |        | C118    | 1-115-339-11   | CERAMIC CHIP 0.1μF 10%  | 50V                                |
| D252    | 8-719-074-61   | DIODE FCH30A04                                    |        | C119    | 1-115-339-11   | CERAMIC CHIP 0.1μF 10%  | 50V                                |
|         |                | <IC>                                              |        | C120    | 1-115-340-11   | CERAMIC CHIP 0.22μF 10% | 25V                                |
| IC251   | 8-759-098-24   | IC PQ30RV11                                       |        | C121    | 1-163-263-91   | CERAMIC CHIP 330pF 5%   | 50V                                |
| IC253   | 8-759-098-24   | IC PQ30RV11                                       |        | C122    | 1-115-339-11   | CERAMIC CHIP 0.1μF 10%  | 50V                                |
| IC254   | 8-759-284-06   | IC PQ30RV31                                       |        | C123    | 1-164-645-11   | CERAMIC 1000pF 10%      | 500V                               |
|         |                | <TRANSISTOR>                                      |        | C124    | 1-163-275-11   | CERAMIC CHIP 1000pF 5%  | 50V                                |
| Q204    | 8-729-047-67   | TRANSISTOR 2SK3142-01                             |        | C125    | 1-163-021-91   | CERAMIC CHIP 0.01μF 10% | 50V                                |
| Q207    | 8-729-047-67   | TRANSISTOR 2SK3142-01                             |        | C150    | 1-136-165-00   | FILM 0.1μF 5%           | 50V                                |
|         |                | HEAT SINK D ASSY                                  |        | C151    | 1-163-275-11   | CERAMIC CHIP 1000pF 5%  | 50V                                |
|         | 2-434-993-21   | SCREW (3X6), RS TIGHT SPRINGWASHER                |        | C152    | 1-163-275-11   | CERAMIC CHIP 1000pF 5%  | 50V                                |
|         |                |                                                   |        | C153    | 1-163-275-11   | CERAMIC CHIP 1000pF 5%  | 50V                                |
|         |                |                                                   |        | C154    | 1-107-909-11   | ELECT 47μF 20%          | 50V                                |
|         |                |                                                   |        | C155    | 1-115-340-11   | CERAMIC CHIP 0.22μF 10% | 25V                                |
|         |                |                                                   |        | C156    | 1-117-351-91   | ELECT 82μF 20%          | 35V                                |
|         |                |                                                   |        | C157    | 1-117-350-91   | ELECT 56μF 20%          | 35V                                |
|         |                |                                                   |        | C158    | 1-163-133-00   | CERAMIC CHIP 470pF 5%   | 50V                                |
|         |                |                                                   |        | C159    | 1-163-133-00   | CERAMIC CHIP 470pF 5%   | 50V                                |
|         |                |                                                   |        | C160    | 1-115-339-11   | CERAMIC CHIP 0.1μF 10%  | 50V                                |
|         |                |                                                   |        | C161    | 1-163-275-11   | CERAMIC CHIP 1000pF 5%  | 50V                                |
|         |                |                                                   |        | C162    | 1-163-275-11   | CERAMIC CHIP 1000pF 5%  | 50V                                |
|         |                |                                                   |        | C163    | 1-163-263-91   | CERAMIC CHIP 330pF 5%   | 50V                                |
|         |                |                                                   |        | C164    | 1-163-017-00   | CERAMIC CHIP 4700pF 10% | 50V                                |
|         |                |                                                   |        | C165    | 1-117-350-91   | ELECT 56μF 20%          | 35V                                |
|         |                |                                                   |        | C166    | 1-115-339-11   | CERAMIC CHIP 0.1μF 10%  | 50V                                |
|         |                |                                                   |        | C167    | 1-127-761-11   | FILM 0.0082μF 5%        | 1.25KV                             |
|         |                |                                                   |        | C169    | 1-107-903-11   | ELECT 2.2μF 20%         | 50V                                |
|         |                |                                                   |        | C170    | △ 1-113-924-91 | CERAMIC 4700pF 20%      | 250V                               |
|         |                |                                                   |        | C171    | △ 1-113-924-91 | CERAMIC 4700pF 20%      | 250V                               |
|         |                |                                                   |        | C200    | 1-115-339-11   | CERAMIC CHIP 0.1μF 10%  | 50V                                |
|         |                |                                                   |        | C201    | 1-117-279-51   | ELECT 3900μF 20%        | 10V                                |
|         |                |                                                   |        | C202    | 1-117-350-91   | ELECT 56μF 20%          | 35V                                |
|         |                |                                                   |        | C204    | 1-117-279-51   | ELECT 3900μF 20%        | 10V                                |

| Ref.No. | Part No.     | Description  | Remark          | Ref.No. | Part No.     | Description  | Remark            |
|---------|--------------|--------------|-----------------|---------|--------------|--------------|-------------------|
| C205    | 1-117-325-91 | ELECT        | 330μF 20% 25V   | C500    | 1-127-822-51 | FILM         | 1μF 10% 420V      |
| C206    | 1-117-301-51 | ELECT        | 820μF 20% 16V   | C501    | 1-127-835-11 | ELECT        | 22μF 20% 450V     |
| C207    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C502    | 1-136-165-00 | FILM         | 0.1μF 5% 50V      |
| C208    | 1-107-904-11 | ELECT        | 3.3μF 20% 50V   | C503    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V     |
| C209    | 1-163-037-11 | CERAMIC CHIP | 0.022μF 10% 50V | C504    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V     |
| C210    | 1-117-247-91 | ELECT        | 820μF 20% 6.3V  | C505    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V     |
| C211    | 1-107-904-11 | ELECT        | 3.3μF 20% 50V   | C506    | 1-107-909-11 | ELECT        | 47μF 20% 50V      |
| C212    | 1-117-247-91 | ELECT        | 820μF 20% 6.3V  | C507    | 1-163-133-00 | CERAMIC CHIP | 470pF 5% 50V      |
| C214    | 1-117-247-91 | ELECT        | 820μF 20% 6.3V  | C508    | 1-163-133-00 | CERAMIC CHIP | 470pF 5% 50V      |
| C215    | 1-117-301-51 | ELECT        | 820μF 20% 16V   | C509    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C250    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C510    | 1-115-340-11 | CERAMIC CHIP | 0.22μF 10% 25V    |
| C252    | 1-117-276-51 | ELECT        | 1500μF 20% 10V  | C511    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V     |
| C253    | 1-117-329-51 | ELECT        | 1500μF 20% 25V  | C512    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V     |
| C254    | 1-117-329-51 | ELECT        | 1500μF 20% 25V  | C513    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C255    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V  | C514    | 1-163-263-91 | CERAMIC CHIP | 330pF 5% 50V      |
| C256    | 1-117-344-51 | ELECT        | 1000μF 20% 35V  | C515    | 1-115-340-11 | CERAMIC CHIP | 0.22μF 10% 25V    |
| C257    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V  | C516    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C258    | 1-115-185-11 | CERAMIC      | 0.033μF 10% 50V | C517    | 1-131-924-11 | FILM         | 0.068μF 5% 1.25KV |
| C259    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V  | C518    | 1-131-924-11 | FILM         | 0.068μF 5% 1.25KV |
| C260    | 1-117-266-91 | ELECT        | 470μF 20% 10V   | C519    | 1-131-924-11 | FILM         | 0.068μF 5% 1.25KV |
| C261    | 1-117-325-91 | ELECT        | 330μF 20% 25V   | C600    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C262    | 1-117-328-51 | ELECT        | 820μF 20% 25V   | C601    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V    |
| C263    | 1-117-355-51 | ELECT        | 560μF 20% 35V   | C602    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C264    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C604    | 1-131-945-11 | ELECT        | 470μF 20% 100V    |
| C268    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C605    | 1-104-760-11 | CERAMIC CHIP | 0.047μF 10% 50V   |
| C300    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V  | C606    | 1-164-344-11 | CERAMIC CHIP | 0.068μF 10% 25V   |
| C301    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C607    | 1-131-945-11 | ELECT        | 470μF 20% 100V    |
| C302    | 1-107-823-11 | CERAMIC CHIP | 0.47μF 10% 16V  | C608    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V    |
| C303    | 1-163-133-00 | CERAMIC CHIP | 470pF 5% 50V    | C609    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V    |
| C304    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V   | C610    | 1-107-906-11 | ELECT        | 10μF 20% 50V      |
| C305    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V   | C611    | 1-117-272-11 | ELECT        | 180μF 20% 10V     |
| C306    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V   | C612    | 1-107-906-11 | ELECT        | 10μF 20% 50V      |
| C307    | 1-107-909-11 | ELECT        | 47μF 20% 50V    | C613    | 1-107-906-11 | ELECT        | 10μF 20% 50V      |
| C308    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C614    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V    |
| C309    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C615    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V    |
| C310    | 1-107-909-11 | ELECT        | 47μF 20% 50V    | C616    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V    |
| C311    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C617    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V    |
| C312    | 1-104-760-11 | CERAMIC CHIP | 0.047μF 10% 50V | C618    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C313    | 1-163-143-00 | CERAMIC      | 1200pF 5% 50V   | C619    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C314    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C620    | 1-131-945-11 | ELECT        | 470μF 20% 100V    |
| C315    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C621    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C316    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C623    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C317    | 1-115-340-11 | CERAMIC CHIP | 0.22μF 10% 25V  | C624    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C400    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C700    | 1-127-822-51 | FILM         | 1μF 10% 420V      |
| C401    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V  | C701    | 1-127-835-11 | ELECT        | 22μF 20% 450V     |
| C402    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C702    | 1-136-165-00 | FILM         | 0.1μF 5% 50V      |
| C404    | 1-163-037-11 | CERAMIC CHIP | 0.022μF 10% 50V | C703    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V     |
| C405    | 1-164-344-11 | CERAMIC CHIP | 0.068μF 10% 25V | C704    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V     |
| C406    | 1-131-944-11 | ELECT        | 470μF 20% 200V  | C705    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V     |
| C407    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V  | C706    | 1-107-909-11 | ELECT        | 47μF 20% 50V      |
| C408    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V  | C707    | 1-163-133-00 | CERAMIC CHIP | 470pF 5% 50V      |
| C409    | 1-117-272-11 | ELECT        | 180μF 20% 10V   | C708    | 1-163-133-00 | CERAMIC CHIP | 470pF 5% 50V      |
| C410    | 1-107-906-11 | ELECT        | 10μF 20% 50V    | C709    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C411    | 1-107-906-11 | ELECT        | 10μF 20% 50V    | C710    | 1-115-340-11 | CERAMIC CHIP | 0.22μF 10% 25V    |
| C412    | 1-107-906-11 | ELECT        | 10μF 20% 50V    | C711    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V     |
| C413    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V  | C712    | 1-163-275-11 | CERAMIC CHIP | 1000pF 5% 50V     |
| C414    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V  | C713    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C415    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V  | C714    | 1-163-263-91 | CERAMIC CHIP | 330pF 5% 50V      |
| C416    | 1-163-021-91 | CERAMIC CHIP | 0.01μF 10% 50V  | C715    | 1-115-340-11 | CERAMIC CHIP | 0.22μF 10% 25V    |
| C417    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C716    | 1-125-916-11 | FILM         | 0.018μF 5% 1.25KV |
| C418    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   | C717    | 1-125-916-11 | FILM         | 0.018μF 5% 1.25KV |
| C419    | 1-131-943-11 | ELECT        | 1200μF 30% 200V | C718    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V     |
| C420    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   |         |              |              |                   |
| C422    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   |         |              |              |                   |
| C423    | 1-115-339-11 | CERAMIC CHIP | 0.1μF 10% 50V   |         |              |              |                   |

# APS-132 M

| Ref.No.     | Part No.       | Description            | Remark | Ref.No.  | Part No.       | Description              | Remark |
|-------------|----------------|------------------------|--------|----------|----------------|--------------------------|--------|
| <CONNECTOR> |                |                        |        | D600     | 8-719-071-63   | DIODE HZU6.2BTRF         |        |
| CN1         | * 1-691-960-11 | PIN, CONNECTOR 3P      |        | D601     | 8-719-988-61   | DIODE 1SS355TE-17        |        |
| CN2         | * 1-580-843-11 | PIN, CONNECTOR (POWER) |        | D602     | 8-719-988-61   | DIODE 1SS355TE-17        |        |
| CN4         | * 1-691-757-11 | PIN, CONNECTOR 8P      |        | D603     | 8-719-988-61   | DIODE 1SS355TE-17        |        |
| CN5         | * 1-770-291-11 | PIN, CONNECTOR 7P      |        | D605     | 8-719-071-63   | DIODE HZU6.2BTRF         |        |
| CN6         | * 1-564-507-11 | PLUG, CONNECTOR 4P     |        | D606     | 8-719-988-61   | DIODE 1SS355TE-17        |        |
| CN7         | * 1-564-596-11 | PLUG, CONNECTOR 15P    |        | D607     | 8-719-988-61   | DIODE 1SS355TE-17        |        |
| CN8         | * 1-564-511-11 | PLUG, CONNECTOR 8P     |        | D608     | 8-719-988-61   | DIODE 1SS355TE-17        |        |
| <DIODE>     |                |                        |        | D700     | 8-719-988-61   | DIODE 1SS355TE-17        |        |
| D100        | △ 8-719-055-11 | DIODE 05NH46           |        | D701     | 8-719-988-61   | DIODE 1SS355TE-17        |        |
| D103        | △ 8-719-055-11 | DIODE 05NH46           |        | D702     | 8-719-988-61   | DIODE 1SS355TE-17        |        |
| D106        | 8-719-988-61   | DIODE 1SS355TE-17      |        | D703     | 8-719-988-61   | DIODE 1SS355TE-17        |        |
| D107        | 8-719-056-84   | DIODE UDZ-TE-17-7.5B   |        | D704     | 8-719-988-61   | DIODE 1SS355TE-17        |        |
| D108        | 8-719-071-79   | DIODE HZU22B2TRF       |        | <FUSE>   |                |                          |        |
| D109        | 8-719-988-61   | DIODE 1SS355TE-17      |        | F101     | △ 1-576-365-11 | FUSE (15A/250V)          |        |
| D110        | 8-719-313-16   | DIODE AU02A            |        | <IC>     |                |                          |        |
| D111        | 8-719-313-16   | DIODE AU02A            |        | IC101    | 8-759-464-69   | IC FA5317P               |        |
| D112        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC102    | 8-759-098-24   | IC PQ30RV11              |        |
| D113        | 8-719-063-70   | DIODE D1NL20U          |        | IC150    | 8-759-470-07   | IC CXA8038AP             |        |
| D114        | 8-719-063-70   | DIODE D1NL20U          |        | IC200    | 8-759-700-65   | IC NJM79L05A             |        |
| D116        | 8-719-071-81   | DIODE HZU30BTRF        |        | IC201    | 8-759-648-34   | IC TA76431AS             |        |
| D150        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC203    | 8-759-170-73   | IC TA78L12S              |        |
| D151        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC250    | 8-759-648-34   | IC TA76431AS             |        |
| D152        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC252    | 8-759-648-34   | IC TA76431AS             |        |
| D153        | 8-719-063-70   | DIODE D1NL20U          |        | IC300    | 8-759-354-43   | IC TK83854D              |        |
| D154        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC301    | 8-759-510-73   | IC BA10393F-E2           |        |
| D155        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC302    | 8-759-648-34   | IC TA76431AS             |        |
| D201        | 8-719-063-70   | DIODE D1NL20U          |        | IC400    | 8-759-510-71   | IC BA10358F-E2           |        |
| D202        | 8-719-063-70   | DIODE D1NL20U          |        | IC401    | 8-759-648-34   | IC TA76431AS             |        |
| D203        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC402    | 8-759-058-50   | IC XRA10324AF            |        |
| D205        | 8-719-071-94   | DIODE HRU0103ATRF      |        | IC403    | 8-759-510-71   | IC BA10358F-E2           |        |
| D206        | 8-719-071-94   | DIODE HRU0103ATRF      |        | IC500    | 8-759-470-07   | IC CXA8038AP             |        |
| D253        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC600    | 8-759-510-71   | IC BA10358F-E2           |        |
| D254        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC601    | 8-759-648-34   | IC TA76431AS             |        |
| D255        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC602    | 8-759-058-50   | IC XRA10324AF            |        |
| D256        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC603    | 8-759-510-71   | IC BA10358F-E2           |        |
| D257        | 8-719-988-61   | DIODE 1SS355TE-17      |        | IC700    | 8-759-470-07   | IC CXA8038AP             |        |
| D258        | 8-719-988-61   | DIODE 1SS355TE-17      |        | <COIL>   |                |                          |        |
| D259        | 8-719-988-61   | DIODE 1SS355TE-17      |        | L100     | 1-416-489-11   | COIL,CHOKE               | 143μH  |
| D260        | 8-719-988-61   | DIODE 1SS355TE-17      |        | L101     | 1-419-372-11   | COIL,CHOKE               |        |
| D261        | 8-719-988-61   | DIODE 1SS355TE-17      |        | L201     | 1-406-703-21   | COIL,CHOKE               | 3.3μH  |
| D262        | 8-719-988-61   | DIODE 1SS355TE-17      |        | L202     | 1-406-703-21   | COIL,CHOKE               | 3.3μH  |
| D263        | 8-719-988-61   | DIODE 1SS355TE-17      |        | L203     | 1-406-703-21   | COIL,CHOKE               | 3.3μH  |
| D300        | 8-719-056-84   | DIODE UDZ-TE-17-7.5B   |        | L250     | 1-419-394-21   | COIL,CHOKE               | 2.2μH  |
| D301        | 8-719-071-94   | DIODE HRU0103ATRF      |        | L251     | 1-419-394-21   | COIL,CHOKE               | 2.2μH  |
| D302        | 8-719-071-94   | DIODE HRU0103ATRF      |        | L252     | 1-416-965-21   | COIL,CHOKE               | 1μH    |
| D303        | 8-719-056-84   | DIODE UDZ-TE-17-7.5B   |        | L253     | 1-406-703-21   | COIL,CHOKE               | 3.3μH  |
| D304        | 8-719-071-94   | DIODE HRU0103ATRF      |        | L254     | 1-406-703-21   | COIL,CHOKE               | 3.3μH  |
| D305        | 8-719-988-61   | DIODE 1SS355TE-17      |        | L400     | 1-469-371-11   | COIL, CHOKE              | 4.2μF  |
| D306        | 8-719-988-61   | DIODE 1SS355TE-17      |        | L401     | 1-416-616-11   | COIL,CHOKE               | 2.2μH  |
| D307        | 8-719-988-61   | DIODE 1SS355TE-17      |        | L501     | 1-419-371-11   | COIL,CHOKE               | 484μH  |
| D402        | 8-719-071-63   | DIODE HZU6.2BTRF       |        | L600     | 1-416-616-11   | COIL,CHOKE               | 2.2μH  |
| D403        | 8-719-988-61   | DIODE 1SS355TE-17      |        | <FILTER> |                |                          |        |
| D404        | 8-719-988-61   | DIODE 1SS355TE-17      |        | LF100    | △ 1-423-804-11 | TRANSFORMER, LINE FILTER |        |
| D405        | 8-719-988-61   | DIODE 1SS355TE-17      |        | LF101    | △ 1-433-843-11 | TRANSFORMER, LINE FILTER |        |
| D406        | 8-719-071-63   | DIODE HZU6.2BTRF       |        | LF102    | △ 1-433-843-11 | TRANSFORMER, LINE FILTER |        |
| D407        | 8-719-988-61   | DIODE 1SS355TE-17      |        |          |                |                          |        |
| D408        | 8-719-988-61   | DIODE 1SS355TE-17      |        |          |                |                          |        |
| D409        | 8-719-988-61   | DIODE 1SS355TE-17      |        |          |                |                          |        |
| D500        | 8-719-988-61   | DIODE 1SS355TE-17      |        |          |                |                          |        |
| D501        | 8-719-988-61   | DIODE 1SS355TE-17      |        |          |                |                          |        |
| D502        | 8-719-988-61   | DIODE 1SS355TE-17      |        |          |                |                          |        |
| D503        | 8-719-988-61   | DIODE 1SS355TE-17      |        |          |                |                          |        |
| D504        | 8-719-988-61   | DIODE 1SS355TE-17      |        |          |                |                          |        |

| Ref.No. | Part No.       | Description                 | Remark   | Ref.No. | Part No.     | Description      | Remark     |
|---------|----------------|-----------------------------|----------|---------|--------------|------------------|------------|
|         |                | <PHOTO COUPLER>             |          | R111    | 1-215-857-11 | METAL OXIDE 10   | 5% 1W F    |
| PH100   | 8-719-062-33   | PHOTO TRIAC COUPLER S21MT2F |          | R112    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| PH101   | 8-749-010-64   | PHOTO COUPLER PC123F2       |          | R113    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| PH102   | 8-749-010-64   | PHOTO COUPLER PC123F2       |          | R114    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| PH103   | 8-749-010-64   | PHOTO COUPLER PC123F2       |          | R115    | 1-215-882-51 | METAL OXIDE 22   | 5% 2W F    |
| PH104   | 8-749-010-64   | PHOTO COUPLER PC123F2       |          |         |              |                  |            |
|         |                |                             |          | R116    | 1-216-081-00 | RES,CHIP 22K     | 5% 1/10W   |
| PH105   | 8-749-010-64   | PHOTO COUPLER PC123F2       |          | R117    | 1-216-065-91 | RES,CHIP 4.7K    | 5% 1/10W   |
| PH500   | 8-749-010-64   | PHOTO COUPLER PC123F2       |          | R118    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| PH501   | 8-749-010-64   | PHOTO COUPLER PC123F2       |          | R119    | 1-216-065-91 | RES,CHIP 4.7K    | 5% 1/10W   |
| PH502   | 8-749-010-64   | PHOTO COUPLER PC123F2       |          | R120    | 1-249-413-11 | CARBON 470       | 5% 1/4W    |
| PH700   | 8-749-010-64   | PHOTO COUPLER PC123F2       |          |         |              |                  |            |
|         |                |                             |          | R121    | 1-216-070-00 | RES,CHIP 7.5K    | 5% 1/10W   |
| PH701   | 8-749-010-64   | PHOTO COUPLER PC123F2       |          | R122    | 1-216-308-00 | RES,CHIP 4.7     | 5% 1/10W   |
| PH702   | 8-749-010-64   | PHOTO COUPLER PC123F2       |          | R124    | 1-215-903-11 | METAL OXIDE 68K  | 5% 2W F    |
|         |                |                             |          | R125    | 1-216-017-91 | RES,CHIP 47      | 5% 1/10W   |
|         |                |                             |          | R126    | 1-215-903-11 | METAL OXIDE 68K  | 5% 2W F    |
|         |                | <TRANSISTOR>                |          |         |              |                  |            |
| Q103    | 8-729-026-49   | TRANSISTOR 2SA1037AK-T146-R |          | R127    | 1-215-904-11 | METAL OXIDE 100K | 5% 2W F    |
| Q104    | 8-729-026-49   | TRANSISTOR 2SA1037AK-T146-R |          | R128    | 1-216-037-00 | RES,CHIP 330     | 5% 1/10W   |
| Q106    | 8-729-035-71   | TRANSISTOR 2SJ334           |          | R129    | 1-216-068-00 | RES,CHIP 6.2K    | 5% 1/10W   |
| Q150    | 8-729-141-48   | TRANSISTOR 2SB624-BV345     |          | R130    | 1-216-029-00 | RES,CHIP 150     | 5% 1/10W   |
| Q151    | 8-729-141-48   | TRANSISTOR 2SB624-BV345     |          | R131    | 1-216-047-00 | RES,CHIP 820     | 5% 1/10W   |
|         |                |                             |          |         |              |                  |            |
| Q200    | 8-729-120-28   | TRANSISTOR 2SC1623-L5L6     |          | R132    | 1-216-345-11 | METAL OXIDE 0.47 | 5% 1W F    |
| Q201    | 8-729-900-53   | TRANSISTOR DTC114EK         |          | R133    | 1-216-089-91 | RES,CHIP 47K     | 5% 1/10W   |
| Q202    | 8-729-026-49   | TRANSISTOR 2SA1037AK-T146-R |          | R134    | 1-216-061-00 | RES,CHIP 3.3K    | 5% 1/10W   |
| Q203    | 8-729-120-28   | TRANSISTOR 2SC1623-L5L6     |          | R135    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| Q205    | 8-729-026-49   | TRANSISTOR 2SA1037AK-T146-R |          | R136    | 1-216-089-91 | RES,CHIP 47K     | 5% 1/10W   |
|         |                |                             |          |         |              |                  |            |
| Q206    | 8-729-120-28   | TRANSISTOR 2SC1623-L5L6     |          | R137    | 1-216-085-00 | RES,CHIP 33K     | 5% 1/10W   |
| Q250    | 8-729-026-49   | TRANSISTOR 2SA1037AK-T146-R |          | R150    | 1-247-807-31 | CARBON 100       | 5% 1/4W    |
| Q251    | 8-729-120-28   | TRANSISTOR 2SC1623-L5L6     |          | R151    | 1-249-401-11 | CARBON 47        | 5% 1/4W    |
| Q300    | 8-729-040-89   | TRANSISTOR 2SK1590-T1B      |          | R152    | 1-216-081-00 | RES,CHIP 22K     | 5% 1/10W   |
| Q301    | 8-729-026-49   | TRANSISTOR 2SA1037AK-T146-R |          | R153    | 1-216-025-00 | RES,CHIP 100     | 5% 1/10W   |
|         |                |                             |          |         |              |                  |            |
| Q302    | 8-729-040-88   | TRANSISTOR 2SB1240TV2QR     |          | R154    | 1-216-029-00 | RES,CHIP 150     | 5% 1/10W   |
| Q303    | 8-729-040-23   | TRANSISTOR 2SD1862TV2QR     |          | R155    | 1-216-065-91 | RES,CHIP 4.7K    | 5% 1/10W   |
| Q304    | 8-729-026-49   | TRANSISTOR 2SA1037AK-T146-R |          | R156    | 1-216-065-91 | RES,CHIP 4.7K    | 5% 1/10W   |
| Q305    | 8-729-040-89   | TRANSISTOR 2SK1590-T1B      |          | R157    | 1-216-065-91 | RES,CHIP 4.7K    | 5% 1/10W   |
| Q400    | 8-729-120-28   | TRANSISTOR 2SC1623-L5L6     |          | R158    | 1-216-065-91 | RES,CHIP 4.7K    | 5% 1/10W   |
|         |                |                             |          |         |              |                  |            |
| Q401    | 8-729-040-89   | TRANSISTOR 2SK1590-T1B      |          | R159    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| Q402    | 8-729-120-28   | TRANSISTOR 2SC1623-L5L6     |          | R160    | 1-216-308-00 | RES,CHIP 4.7     | 5% 1/10W   |
| Q403    | 8-729-040-89   | TRANSISTOR 2SK1590-T1B      |          | R161    | 1-216-308-00 | RES,CHIP 4.7     | 5% 1/10W   |
| Q404    | 8-729-040-89   | TRANSISTOR 2SK1590-T1B      |          | R162    | 1-216-081-00 | RES,CHIP 22K     | 5% 1/10W   |
| Q405    | 8-729-040-89   | TRANSISTOR 2SK1590-T1B      |          | R163    | 1-216-081-00 | RES,CHIP 22K     | 5% 1/10W   |
|         |                |                             |          |         |              |                  |            |
| Q406    | 8-729-033-07   | TRANSISTOR 2SK2425          |          | R164    | 1-249-429-11 | CARBON 10K       | 5% 1/4W    |
| Q500    | 8-729-141-48   | TRANSISTOR 2SB624-BV345     |          | R165    | 1-216-077-91 | RES,CHIP 15K     | 5% 1/10W   |
| Q501    | 8-729-141-48   | TRANSISTOR 2SB624-BV345     |          | R166    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| Q600    | 8-729-120-28   | TRANSISTOR 2SC1623-L5L6     |          | R167    | 1-216-341-11 | METAL OXIDE 0.22 | 5% 1W F    |
| Q601    | 8-729-040-89   | TRANSISTOR 2SK1590-T1B      |          | R190    | 1-247-791-91 | CARBON 22        | 5% 1/4W    |
|         |                |                             |          |         |              |                  |            |
| Q602    | 8-729-120-28   | TRANSISTOR 2SC1623-L5L6     |          | R191    | 1-216-089-91 | RES,CHIP 47K     | 5% 1/10W   |
| Q603    | 8-729-040-89   | TRANSISTOR 2SK1590-T1B      |          | R192    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| Q604    | 8-729-040-89   | TRANSISTOR 2SK1590-T1B      |          | R201    | 1-216-065-91 | RES,CHIP 4.7K    | 5% 1/10W   |
| Q605    | 8-729-040-89   | TRANSISTOR 2SK1590-T1B      |          | R202    | 1-216-065-91 | RES,CHIP 4.7K    | 5% 1/10W   |
| Q606    | 8-729-050-53   | TRANSISTOR 2SK3212-01       |          | R203    | 1-216-065-91 | RES,CHIP 4.7K    | 5% 1/10W   |
|         |                |                             |          |         |              |                  |            |
| Q700    | 8-729-141-48   | TRANSISTOR 2SB624-BV345     |          | R204    | 1-216-065-91 | RES,CHIP 4.7K    | 5% 1/10W   |
| Q701    | 8-729-141-48   | TRANSISTOR 2SB624-BV345     |          | R205    | 1-216-057-00 | RES,CHIP 2.2K    | 5% 1/10W   |
|         |                |                             |          | R206    | 1-216-049-11 | RES,CHIP 1K      | 5% 1/10W   |
|         |                |                             |          | R207    | 1-208-798-11 | RES,CHIP 4.7K    | 0.5% 1/10W |
|         |                |                             |          | R208    | 1-208-782-11 | RES,CHIP 1K      | 0.5% 1/10W |
|         |                |                             |          |         |              |                  |            |
|         |                | <RESISTOR>                  |          | R209    | 1-208-806-11 | RES,CHIP 10K     | 0.5% 1/10W |
| R100    | △ 1-260-131-81 | CARBON 470K                 | 5% 1/2W  | R210    | 1-216-049-11 | RES,CHIP 1K      | 5% 1/10W   |
| R101    | 1-240-313-11   | CEMENT 4.7                  | 5% 5W    | R211    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| R102    | 1-249-397-11   | CARBON 22                   | 5% 1/4W  | R212    | 1-216-049-11 | RES,CHIP 1K      | 5% 1/10W   |
| R103    | 1-240-313-11   | CEMENT 4.7                  | 5% 5W    | R213    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| R104    | 1-240-910-11   | CEMENT 4.7                  | 5% 5W    |         |              |                  |            |
|         |                |                             |          | R214    | 1-216-065-91 | RES,CHIP 4.7K    | 5% 1/10W   |
| R105    | 1-249-407-91   | CARBON 150                  | 5% 1/4W  | R215    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| R106    | 1-219-393-11   | METAL PLATE 0.05            | 10% 5W F | R216    | 1-216-073-00 | RES,CHIP 10K     | 5% 1/10W   |
| R107    | 1-219-393-11   | METAL PLATE 0.05            | 10% 5W F | R218    | 1-208-790-11 | RES,CHIP 2.2K    | 0.5% 1/10W |
| R109    | 1-215-857-11   | METAL OXIDE 10              | 5% 1W F  | R219    | 1-208-782-11 | RES,CHIP 1K      | 0.5% 1/10W |
| R110    | 1-215-857-11   | METAL OXIDE 10              | 5% 1W F  |         |              |                  |            |

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| Ref.No. | Part No.     | Description | Remark |      |       | Ref.No. | Part No.     | Description | Remark |      |       |
|---------|--------------|-------------|--------|------|-------|---------|--------------|-------------|--------|------|-------|
| R220    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W | R322    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W |
| R221    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R323    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W |
| R222    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W | R324    | 1-249-393-11 | CARBON      | 10     | 5%   | 1/4W  |
| R223    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R325    | 1-216-057-00 | RES,CHIP    | 2.2K   | 5%   | 1/10W |
| R224    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W | R326    | 1-216-101-00 | RES,CHIP    | 150K   | 5%   | 1/10W |
| R225    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R327    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W |
| R250    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R328    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W |
| R251    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W | R329    | 1-260-128-11 | CARBON      | 270K   | 5%   | 1/2W  |
| R252    | 1-216-071-00 | RES,CHIP    | 8.2K   | 5%   | 1/10W | R339    | 1-260-128-11 | CARBON      | 270K   | 5%   | 1/2W  |
| R253    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W | R340    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W |
| R254    | 1-216-079-00 | RES,CHIP    | 18K    | 5%   | 1/10W | R341    | 1-216-042-00 | RES,CHIP    | 510    | 5%   | 1/10W |
| R255    | 1-216-079-00 | RES,CHIP    | 18K    | 5%   | 1/10W | R342    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W |
| R256    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R343    | 1-216-077-91 | RES,CHIP    | 15K    | 5%   | 1/10W |
| R257    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W | R344    | 1-214-929-00 | METAL       | 470K   | 1%   | 1/2W  |
| R258    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R345    | 1-214-929-00 | METAL       | 470K   | 1%   | 1/2W  |
| R259    | 1-216-113-00 | RES,CHIP    | 470K   | 5%   | 1/10W | R346    | 1-208-799-11 | RES,CHIP    | 5.1K   | 0.5% | 1/10W |
| R260    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R347    | 1-216-037-00 | RES,CHIP    | 330    | 5%   | 1/10W |
| R261    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W | R348    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W |
| R262    | 1-208-812-11 | RES,CHIP    | 18K    | 0.5% | 1/10W | R349    | 1-247-791-91 | CARBON      | 22     | 5%   | 1/4W  |
| R263    | 1-208-793-11 | RES,CHIP    | 3K     | 0.5% | 1/10W | R351    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W |
| R264    | 1-208-798-11 | RES,CHIP    | 4.7K   | 0.5% | 1/10W | R352    | 1-216-113-00 | RES,CHIP    | 470K   | 5%   | 1/10W |
| R265    | 1-208-765-11 | RES,CHIP    | 200    | 0.5% | 1/10W | R400    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W |
| R266    | 1-208-782-11 | RES,CHIP    | 1K     | 0.5% | 1/10W | R401    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W |
| R267    | 1-249-417-11 | CARBON      | 1K     | 5%   | 1/4W  | R402    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W |
| R268    | 1-208-798-11 | RES,CHIP    | 4.7K   | 0.5% | 1/10W | R403    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W |
| R269    | 1-208-769-11 | RES,CHIP    | 300    | 0.5% | 1/10W | R404    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W |
| R270    | 1-208-797-11 | RES,CHIP    | 4.3K   | 0.5% | 1/10W | R405    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W |
| R271    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R406    | 1-216-070-00 | RES,CHIP    | 7.5K   | 5%   | 1/10W |
| R272    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W | R407    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W |
| R273    | 1-208-798-11 | RES,CHIP    | 4.7K   | 0.5% | 1/10W | R408    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W |
| R274    | 1-208-764-11 | RES,CHIP    | 180    | 0.5% | 1/10W | R409    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W |
| R275    | 1-208-770-11 | RES,CHIP    | 330    | 0.5% | 1/10W | R410    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W |
| R276    | 1-208-806-11 | RES,CHIP    | 10K    | 0.5% | 1/10W | R411    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W |
| R277    | 1-208-783-11 | RES,CHIP    | 1.1K   | 0.5% | 1/10W | R412    | 1-214-914-11 | METAL       | 110K   | 1%   | 1/2W  |
| R278    | 1-208-788-11 | RES,CHIP    | 1.8K   | 0.5% | 1/10W | R413    | 1-214-914-11 | METAL       | 110K   | 1%   | 1/2W  |
| R279    | 1-208-806-11 | RES,CHIP    | 10K    | 0.5% | 1/10W | R414    | 1-208-795-11 | RES,CHIP    | 3.6K   | 0.5% | 1/10W |
| R280    | 1-208-782-11 | RES,CHIP    | 1K     | 0.5% | 1/10W | R415    | 1-216-057-00 | RES,CHIP    | 2.2K   | 5%   | 1/10W |
| R281    | 1-208-788-11 | RES,CHIP    | 1.8K   | 0.5% | 1/10W | R416    | 1-208-782-11 | RES,CHIP    | 1K     | 0.5% | 1/10W |
| R282    | 1-208-806-11 | RES,CHIP    | 10K    | 0.5% | 1/10W | R417    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W |
| R283    | 1-208-767-11 | RES,CHIP    | 240    | 0.5% | 1/10W | R418    | 1-208-782-11 | RES,CHIP    | 1K     | 0.5% | 1/10W |
| R284    | 1-208-768-11 | RES,CHIP    | 270    | 0.5% | 1/10W | R419    | 1-208-782-11 | RES,CHIP    | 1K     | 0.5% | 1/10W |
| R285    | 1-208-814-91 | RES,CHIP    | 22K    | 0.5% | 1/10W | R420    | 1-208-806-11 | RES,CHIP    | 10K    | 0.5% | 1/10W |
| R286    | 1-208-765-11 | RES,CHIP    | 200    | 0.5% | 1/10W | R421    | 1-217-625-00 | METAL PLATE | 0.05   | 10%  | 2W F  |
| R287    | 1-208-792-11 | RES,CHIP    | 2.7K   | 0.5% | 1/10W | R422    | 1-208-807-11 | RES,CHIP    | 11K    | 0.5% | 1/10W |
| R288    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R423    | 1-216-105-91 | RES,CHIP    | 220K   | 5%   | 1/10W |
| R300    | 1-249-413-11 | CARBON      | 470    | 5%   | 1/4W  | R424    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5%   | 1/10W |
| R301    | 1-249-413-11 | CARBON      | 470    | 5%   | 1/4W  | R425    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5%   | 1/10W |
| R302    | 1-260-130-91 | CARBON      | 390K   | 5%   | 1/2W  | R426    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W |
| R304    | 1-260-130-91 | CARBON      | 390K   | 5%   | 1/2W  | R427    | 1-216-089-91 | RES,CHIP    | 47K    | 5%   | 1/10W |
| R305    | 1-216-109-00 | RES,CHIP    | 330K   | 5%   | 1/10W | R428    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W |
| R306    | 1-260-130-91 | CARBON      | 390K   | 5%   | 1/2W  | R429    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W |
| R307    | 1-260-130-91 | CARBON      | 390K   | 5%   | 1/2W  | R430    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W |
| R309    | 1-216-097-91 | RES,CHIP    | 100K   | 5%   | 1/10W | R431    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W |
| R310    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W | R433    | 1-208-830-11 | RES,CHIP    | 100K   | 0.5% | 1/10W |
| R311    | 1-260-130-91 | CARBON      | 390K   | 5%   | 1/2W  | R434    | 1-216-085-00 | RES,CHIP    | 33K    | 5%   | 1/10W |
| R312    | 1-260-130-91 | CARBON      | 390K   | 5%   | 1/2W  | R436    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W |
| R313    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5%   | 1/10W | R437    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W |
| R314    | 1-216-052-00 | RES,CHIP    | 1.3K   | 5%   | 1/10W | R438    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W |
| R315    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R439    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W |
| R316    | 1-216-062-00 | RES,CHIP    | 3.6K   | 5%   | 1/10W | R441    | 1-214-924-00 | METAL       | 300K   | 1%   | 1/2W  |
| R317    | 1-216-121-91 | RES,CHIP    | 1M     | 5%   | 1/10W | R442    | 1-214-900-00 | METAL       | 30K    | 1%   | 1/2W  |
| R318    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W | R443    | 1-208-783-11 | RES,CHIP    | 1.1K   | 0.5% | 1/10W |
| R319    | 1-216-105-91 | RES,CHIP    | 220K   | 5%   | 1/10W | R444    | 1-208-798-11 | RES,CHIP    | 4.7K   | 0.5% | 1/10W |
| R320    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W | R445    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W |
| R321    | 1-249-413-11 | CARBON      | 470    | 5%   | 1/4W  | R446    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W |

| Ref.No. | Part No.     | Description | Remark |      |       | Ref.No.             | Part No.     | Description    | Remark |      |       |
|---------|--------------|-------------|--------|------|-------|---------------------|--------------|----------------|--------|------|-------|
| R447    | 1-208-805-11 | RES,CHIP    | 9.1K   | 0.5% | 1/10W | R627                | 1-216-089-91 | RES,CHIP       | 47K    |      | 1/10W |
| R448    | 1-216-655-11 | METAL       | 1.5K   | 0.5% | 1/10W | R628                | 1-216-049-11 | RES,CHIP       | 1K     | 5%   | 1/10W |
| R449    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R629                | 1-216-081-00 | RES,CHIP       | 22K    | 5%   | 1/10W |
| R450    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W | R630                | 1-216-073-00 | RES,CHIP       | 10K    | 5%   | 1/10W |
| R451    | 1-242-914-11 | CEMENT      | 100    | 5%   | 5W    | R631                | 1-216-081-00 | RES,CHIP       | 22K    | 5%   | 1/10W |
| R452    | 1-208-806-11 | RES,CHIP    | 10K    | 0.5% | 1/10W | R632                | 1-208-816-11 | RES,CHIP       | 27K    | 0.5% | 1/10W |
| R453    | 1-216-655-11 | METAL       | 1.5K   | 0.5% | 1/10W | R633                | 1-216-085-00 | RES,CHIP       | 33K    | 5%   | 1/10W |
| R454    | 1-208-830-11 | RES,CHIP    | 100K   | 0.5% | 1/10W | R635                | 1-216-073-00 | RES,CHIP       | 10K    | 5%   | 1/10W |
| R455    | 1-208-830-11 | RES,CHIP    | 100K   | 0.5% | 1/10W | R636                | 1-216-073-00 | RES,CHIP       | 10K    | 5%   | 1/10W |
| R456    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R637                | 1-216-049-11 | RES,CHIP       | 1K     | 5%   | 1/10W |
| R457    | 1-208-830-11 | RES,CHIP    | 100K   | 0.5% | 1/10W | R638                | 1-216-073-00 | RES,CHIP       | 10K    | 5%   | 1/10W |
| R459    | 1-208-802-11 | RES,CHIP    | 6.8K   | 0.5% | 1/10W | R640                | 1-214-914-11 | METAL          | 110K   | 1%   | 1/2W  |
| R460    | 1-242-916-11 | CEMENT      | 16K    | 5%   | 5W    | R641                | 1-215-456-00 | METAL          | 30K    | 1%   | 1/4W  |
| R461    | 1-216-113-00 | RES,CHIP    | 470K   | 5%   | 1/10W | R642                | 1-208-795-11 | RES,CHIP       | 3.6K   | 0.5% | 1/10W |
| R462    | 1-242-916-11 | CEMENT      | 16K    | 5%   | 5W    | R643                | 1-208-798-11 | RES,CHIP       | 4.7K   | 0.5% | 1/10W |
| R465    | 1-216-389-91 | METAL OXIDE | 1      | 5%   | 3W    | R644                | 1-216-073-00 | RES,CHIP       | 10K    | 5%   | 1/10W |
| R466    | 1-216-389-91 | METAL OXIDE | 1      | 5%   | 3W    | R645                | 1-216-049-11 | RES,CHIP       | 1K     | 5%   | 1/10W |
| R467    | 1-242-916-11 | CEMENT      | 16K    | 5%   | 5W    | R646                | 1-208-792-11 | RES,CHIP       | 2.7K   | 0.5% | 1/10W |
| R468    | 1-242-914-11 | CEMENT      | 100    | 5%   | 5W    | R647                | 1-216-655-11 | METAL          | 1.5K   | 0.5% | 1/10W |
| R469    | 1-242-914-11 | CEMENT      | 100    | 5%   | 5W    | R648                | 1-216-073-00 | RES,CHIP       | 10K    | 5%   | 1/10W |
| R500    | 1-247-807-31 | CARBON      | 100    | 5%   | 1/4W  | R649                | 1-216-049-11 | RES,CHIP       | 1K     | 5%   | 1/10W |
| R501    | 1-249-401-11 | CARBON      | 47     | 5%   | 1/4W  | R650                | 1-242-913-11 | CEMENT         | 15     | 5%   | 5W    |
| R502    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R651                | 1-208-806-11 | RES,CHIP       | 10K    | 0.5% | 1/10W |
| R503    | 1-216-037-00 | RES,CHIP    | 330    | 5%   | 1/10W | R652                | 1-216-655-11 | METAL          | 1.5K   | 0.5% | 1/10W |
| R504    | 1-208-766-11 | RES,CHIP    | 220    | 0.5% | 1/10W | R653                | 1-208-832-11 | RES,CHIP       | 120K   | 0.5% | 1/10W |
| R505    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W | R654                | 1-208-832-11 | RES,CHIP       | 120K   | 0.5% | 1/10W |
| R506    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W | R655                | 1-216-073-00 | RES,CHIP       | 10K    | 5%   | 1/10W |
| R507    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W | R658                | 1-208-810-11 | RES,CHIP       | 15K    | 0.5% | 1/10W |
| R508    | 1-216-308-00 | RES,CHIP    | 4.7    | 5%   | 1/10W | R659                | 1-242-915-11 | CEMENT         | 2.7K   | 5%   | 5W    |
| R509    | 1-216-308-00 | RES,CHIP    | 4.7    | 5%   | 1/10W | R660                | 1-216-113-00 | RES,CHIP       | 470K   | 5%   | 1/10W |
| R510    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R661                | 1-242-915-11 | CEMENT         | 2.7K   | 5%   | 5W    |
| R511    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5%   | 1/10W | R662                | 1-242-913-11 | CEMENT         | 15     | 5%   | 5W    |
| R512    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W | R700                | 1-247-807-31 | CARBON         | 100    | 5%   | 1/4W  |
| R513    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W | R701                | 1-249-401-11 | CARBON         | 47     | 5%   | 1/4W  |
| R514    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W | R703                | 1-216-073-00 | RES,CHIP       | 10K    | 5%   | 1/10W |
| R515    | 1-217-625-00 | METAL PLATE | 0.05   | 10%  | 2W F  | R704                | 1-208-768-11 | RES,CHIP       | 270    | 0.5% | 1/10W |
| R516    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W | R705                | 1-208-766-11 | RES,CHIP       | 220    | 0.5% | 1/10W |
| R517    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R706                | 1-216-065-91 | RES,CHIP       | 4.7K   | 5%   | 1/10W |
| R600    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W | R707                | 1-216-065-91 | RES,CHIP       | 4.7K   | 5%   | 1/10W |
| R601    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W | R708                | 1-216-081-00 | RES,CHIP       | 22K    | 5%   | 1/10W |
| R602    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W | R709                | 1-216-308-00 | RES,CHIP       | 4.7    | 5%   | 1/10W |
| R603    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W | R710                | 1-216-308-00 | RES,CHIP       | 4.7    | 5%   | 1/10W |
| R604    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W | R711                | 1-216-073-00 | RES,CHIP       | 10K    | 5%   | 1/10W |
| R605    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W | R712                | 1-216-049-11 | RES,CHIP       | 1K     | 5%   | 1/10W |
| R606    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R713                | 1-216-061-00 | RES,CHIP       | 3.3K   | 5%   | 1/10W |
| R607    | 1-216-073-00 | RES,CHIP    | 10K    | 5%   | 1/10W | R714                | 1-216-081-00 | RES,CHIP       | 22K    | 5%   | 1/10W |
| R608    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W | R715                | 1-216-081-00 | RES,CHIP       | 22K    | 5%   | 1/10W |
| R609    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W | R716                | 1-217-625-00 | METAL PLATE    | 0.05   | 10%  | 2W F  |
| R610    | 1-216-049-11 | RES,CHIP    | 1K     | 5%   | 1/10W | R717                | 1-216-689-11 | RES,CHIP       | 39K    | 5%   | 1/10W |
| R611    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W | R718                | 1-216-073-00 | RES,CHIP       | 10K    | 5%   | 1/10W |
| R612    | 1-215-459-00 | METAL       | 39K    | 1%   | 1/4W  | <VARIABLE RESISTOR> |              |                |        |      |       |
| R613    | 1-215-457-00 | METAL       | 33K    | 1%   | 1/4W  | RV150               | 1-241-764-11 | RES,ADJ,CERMET |        | 10K  |       |
| R614    | 1-208-795-11 | RES,CHIP    | 3.6K   | 0.5% | 1/10W | RV201               | 1-241-762-11 | RES,ADJ,CERMET |        | 2.2K |       |
| R615    | 1-216-057-00 | RES,CHIP    | 2.2K   | 5%   | 1/10W | RV250               | 1-241-762-11 | RES,ADJ,CERMET |        | 2.2K |       |
| R616    | 1-208-782-11 | RES,CHIP    | 1K     | 0.5% | 1/10W | RV300               | 1-241-762-11 | RES,ADJ,CERMET |        | 2.2K |       |
| R617    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5%   | 1/10W | RV400               | 1-241-759-11 | RES,ADJ,CERMET |        | 220  |       |
| R618    | 1-208-782-11 | RES,CHIP    | 1K     | 0.5% | 1/10W | RV401               | 1-241-762-11 | RES,ADJ,CERMET |        | 2.2K |       |
| R619    | 1-208-782-11 | RES,CHIP    | 1K     | 0.5% | 1/10W | RV402               | 1-241-760-11 | RES,ADJ,CERMET |        | 470  |       |
| R620    | 1-208-806-11 | RES,CHIP    | 10K    | 0.5% | 1/10W | RV500               | 1-241-764-11 | RES,ADJ,CERMET |        | 10K  |       |
| R621    | 1-217-625-00 | METAL PLATE | 0.05   | 10%  | 2W F  | RV600               | 1-241-760-11 | RES,ADJ,CERMET |        | 470  |       |
| R622    | 1-208-806-11 | RES,CHIP    | 10K    | 0.5% | 1/10W | RV601               | 1-241-762-11 | RES,ADJ,CERMET |        | 2.2K |       |
| R623    | 1-216-105-91 | RES,CHIP    | 220K   | 5%   | 1/10W | RV602               | 1-241-760-11 | RES,ADJ,CERMET |        | 470  |       |
| R624    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5%   | 1/10W | RV700               | 1-241-764-11 | RES,ADJ,CERMET |        | 10K  |       |
| R625    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5%   | 1/10W |                     |              |                |        |      |       |
| R626    | 1-216-081-00 | RES,CHIP    | 22K    | 5%   | 1/10W |                     |              |                |        |      |       |

# APS-132 M    APS-136 M

| Ref.No.                                          | Part No.                                 | Description            | Remark | Ref.No.                                          | Part No.       | Description           | Remark          |
|--------------------------------------------------|------------------------------------------|------------------------|--------|--------------------------------------------------|----------------|-----------------------|-----------------|
| <TRANSFORMER>                                    |                                          |                        |        | <IC>                                             |                |                       |                 |
| T101                                             | 1-435-218-11                             | TRANSFORMER, CONVERTOR |        | IC251                                            | 8-759-098-24   | IC PQ30RV11           |                 |
| T102                                             | 1-435-219-11                             | TRANSFORMER, CONVERTOR |        | IC253                                            | 8-759-098-24   | IC PQ30RV11           |                 |
| T105                                             | 1-426-931-21                             | TRANSFORMER, DRIVE     |        | IC254                                            | 8-759-284-06   | IC PQ30RV31           |                 |
| T501                                             | 1-435-216-11                             | TRANSFORMER, CONVERTOR |        | <TRANSISTOR>                                     |                |                       |                 |
| T502                                             | 1-426-931-21                             | TRANSFORMER, DRIVE     |        |                                                  |                |                       |                 |
| T701                                             | 1-435-217-11                             | TRANSFORMER, CONVERTOR |        | Q204                                             | 8-729-047-67   | TRANSISTOR 2SK3142-01 |                 |
| T702                                             | 1-426-931-21                             | TRANSFORMER, DRIVE     |        | Q207                                             | 8-729-047-67   | TRANSISTOR 2SK3142-01 |                 |
| <VARISTOR>                                       |                                          |                        |        | HEAT SINK D ASSY                                 |                |                       |                 |
| VDR100△                                          | 1-809-909-22                             | VARISTOR NV270D03-TB2  |        | 2-434-993-21 SCREW (3X6), RS TIGHT SPRING WASHER |                |                       |                 |
| VDR101△                                          | 1-801-625-21                             | VARISTOR 470NR10D      |        | <TRANSISTOR>                                     |                |                       |                 |
| VDR102△                                          | 1-801-625-21                             | VARISTOR 470NR10D      |        |                                                  |                |                       |                 |
| VDR103△                                          | 1-809-909-22                             | VARISTOR NV270D03-TB2  |        | Q105                                             | 8-729-047-46   | TRANSISTOR FS7KM-16A  |                 |
| *****                                            |                                          |                        |        | Q152                                             | 8-729-039-41   | TRANSISTOR FS10KM-10  |                 |
|                                                  |                                          |                        |        | Q153                                             | 8-729-039-41   | TRANSISTOR FS10KM-10  |                 |
| * 1-468-522-11                                   | SWITCHING REGULATOR<br>(APS-136 M BOARD) |                        | *****  | HEAT SINK E ASSY                                 |                |                       |                 |
|                                                  |                                          |                        |        | 2-434-993-21 SCREW (3X6), RS TIGHT SPRING WASHER |                |                       |                 |
| HEAT SINK A ASSY                                 |                                          |                        |        | <DIODE>                                          |                |                       |                 |
| 2-434-993-21 SCREW (3X6), RS TIGHT SPRING WASHER |                                          |                        |        | D400                                             | 8-719-073-58   | DIODE 20JL2C41A       |                 |
| <DIODE>                                          |                                          |                        |        | D604                                             | 8-719-077-10   | DIODE 20FL2C41A       |                 |
| D101                                             | △ 8-719-073-32                           | DIODE D25XB60          |        | <CAPACITOR>                                      |                |                       |                 |
| D102                                             | 8-719-073-56                             | TRIAC BT139X-600       |        | C100                                             | △ 1-127-775-91 | CERAMIC               | 100pF 10% 250V  |
| D104                                             | 8-719-073-58                             | DIODE 20JL2C41A        |        | C101                                             | △ 1-113-920-91 | CERAMIC               | 2200pF 20% 250V |
| <TRANSISTOR>                                     |                                          |                        |        | C102                                             | △ 1-127-775-91 | CERAMIC               | 100pF 10% 250V  |
| Q100                                             | 8-729-035-65                             | TRANSISTOR 2SK2370(2)  |        | C103                                             | △ 1-113-920-91 | CERAMIC               | 2200pF 20% 250V |
| Q101                                             | 8-729-035-65                             | TRANSISTOR 2SK2370(2)  |        | C104                                             | △ 1-125-933-51 | FILM                  | 1μF 10% 275V    |
| Q102                                             | 8-729-035-65                             | TRANSISTOR 2SK2370(2)  |        | C107                                             | △ 1-125-933-51 | FILM                  | 1μF 10% 275V    |
| <THERMISTOR>                                     |                                          |                        |        | C108                                             | 1-163-021-91   | CERAMIC CHIP          | 0.01μF 10% 50V  |
| THP100                                           | 1-809-789-51                             | THERMISTOR, POSITIVE   |        | C109                                             | 1-127-822-51   | FILM                  | 1μF 10% 420V    |
| THP101                                           | 1-809-789-51                             | THERMISTOR, POSITIVE   |        | C110                                             | 1-127-822-51   | FILM                  | 1μF 10% 420V    |
| HEAT SINK B ASSY                                 |                                          |                        |        | C111                                             | 1-127-822-51   | FILM                  | 1μF 10% 420V    |
| 2-434-993-21 SCREW (3X6), RS TIGHT SPRING WASHER |                                          |                        |        | C112                                             | 1-165-127-11   | CERAMIC               | 470pF 10% 500V  |
| <TRANSISTOR>                                     |                                          |                        |        | C113                                             | 1-165-127-11   | CERAMIC               | 470pF 10% 500V  |
| Q502                                             | 8-729-035-65                             | TRANSISTOR 2SK2370(2)  |        | C114                                             | 1-117-716-51   | FILM                  | 2.2μF 10% 420V  |
| Q503                                             | 8-729-035-65                             | TRANSISTOR 2SK2370(2)  |        | C115                                             | 1-131-942-11   | ELECT                 | 270μF 30% 450V  |
| Q702                                             | 8-729-035-65                             | TRANSISTOR 2SK2370(2)  |        | C116                                             | 1-131-942-11   | ELECT                 | 270μF 30% 450V  |
| Q703                                             | 8-729-035-65                             | TRANSISTOR 2SK2370(2)  |        | C117                                             | 1-113-920-11   | CERAMIC               | 2200pF 20% 250V |
| HEAT SINK C ASSY                                 |                                          |                        |        | C118                                             | 1-115-339-11   | CERAMIC CHIP          | 0.1μF 10% 50V   |
| 2-434-993-21 SCREW (3X6), RS TIGHT SPRING WASHER |                                          |                        |        | C119                                             | 1-115-339-11   | CERAMIC CHIP          | 0.1μF 10% 50V   |
| 2-625-794-01 RUBBER (TO-3P), INSULATING          |                                          |                        |        | C120                                             | 1-115-340-11   | CERAMIC CHIP          | 0.22μF 10% 25V  |
| <DIODE>                                          |                                          |                        |        | C121                                             | 1-163-263-91   | CERAMIC CHIP          | 330pF 5% 50V    |
| D200                                             | 8-719-062-31                             | DIODE 20DL2C41A        |        | C122                                             | 1-115-339-11   | CERAMIC CHIP          | 0.1μF 10% 50V   |
| D250                                             | 8-719-061-49                             | DIODE FCH20A10         |        | C123                                             | 1-164-645-11   | CERAMIC               | 1000pF 10% 500V |
| D251                                             | 8-719-060-25                             | DIODE FCQ30A06         |        | C124                                             | 1-163-275-11   | CERAMIC CHIP          | 1000pF 5% 50V   |
| D252                                             | 8-719-055-40                             | DIODE FCQ30A04         |        | C125                                             | 1-163-021-91   | CERAMIC CHIP          | 0.01μF 10% 50V  |
|                                                  |                                          |                        |        | C150                                             | 1-136-165-00   | FILM                  | 0.1μF 5% 50V    |
|                                                  |                                          |                        |        | C151                                             | 1-163-275-11   | CERAMIC CHIP          | 1000pF 5% 50V   |
|                                                  |                                          |                        |        | C152                                             | 1-163-275-11   | CERAMIC CHIP          | 1000pF 5% 50V   |
|                                                  |                                          |                        |        | C153                                             | 1-163-275-11   | CERAMIC CHIP          | 1000pF 5% 50V   |
|                                                  |                                          |                        |        | C154                                             | 1-107-909-11   | ELECT                 | 47μF 20% 50V    |
|                                                  |                                          |                        |        | C155                                             | 1-115-340-11   | CERAMIC CHIP          | 0.22μF 10% 25V  |
|                                                  |                                          |                        |        | C156                                             | 1-117-351-91   | ELECT                 | 82μF 20% 35V    |
|                                                  |                                          |                        |        | C157                                             | 1-117-350-91   | ELECT                 | 56μF 20% 35V    |
|                                                  |                                          |                        |        | C158                                             | 1-163-133-00   | CERAMIC CHIP          | 470pF 5% 50V    |
|                                                  |                                          |                        |        | C159                                             | 1-163-133-00   | CERAMIC CHIP          | 470pF 5% 50V    |
|                                                  |                                          |                        |        | C160                                             | 1-115-339-11   | CERAMIC CHIP          | 0.1μF 10% 50V   |



| Ref.No. | Part No.       | Description  | Remark   |     |        | Ref.No. | Part No.     | Description  | Remark  |     |        |
|---------|----------------|--------------|----------|-----|--------|---------|--------------|--------------|---------|-----|--------|
| C161    | 1-163-275-11   | CERAMIC CHIP | 1000pF   | 5%  | 50V    | C404    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C162    | 1-163-275-11   | CERAMIC CHIP | 1000pF   | 5%  | 50V    | C405    | 1-164-344-11 | CERAMIC CHIP | 0.068μF | 10% | 25V    |
| C163    | 1-163-263-91   | CERAMIC CHIP | 330pF    | 5%  | 50V    | C406    | 1-135-873-11 | ELECT        | 470μF   | 20% | 250V   |
| C164    | 1-163-017-00   | CERAMIC CHIP | 4700pF   | 10% | 50V    | C407    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C165    | 1-117-350-91   | ELECT        | 56μF     | 20% | 35V    | C408    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C166    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C409    | 1-117-272-11 | ELECT        | 180μF   | 20% | 10V    |
| C167    | 1-127-761-11   | FILM         | 0.0082μF | 5%  | 1.25KV | C410    | 1-107-906-11 | ELECT        | 10μF    | 20% | 50V    |
| C169    | 1-107-903-11   | ELECT        | 2.2μF    | 20% | 50V    | C411    | 1-107-906-11 | ELECT        | 10μF    | 20% | 50V    |
| C170    | △ 1-113-924-91 | CERAMIC      | 4700pF   | 20% | 250V   | C412    | 1-107-906-11 | ELECT        | 10μF    | 20% | 50V    |
| C171    | △ 1-113-924-91 | CERAMIC      | 4700pF   | 20% | 250V   | C413    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C200    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C414    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C201    | 1-117-279-51   | ELECT        | 3900μF   | 20% | 10V    | C415    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C202    | 1-117-350-91   | ELECT        | 56μF     | 20% | 35V    | C416    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C204    | 1-117-279-51   | ELECT        | 3900μF   | 20% | 10V    | C417    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C205    | 1-117-325-91   | ELECT        | 330μF    | 20% | 25V    | C418    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C206    | 1-117-295-91   | ELECT        | 82μF     | 20% | 16V    | C419    | 1-131-943-11 | ELECT        | 1200μF  | 30% | 200V   |
| C207    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C420    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C208    | 1-107-904-11   | ELECT        | 3.3μF    | 20% | 50V    | C422    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C209    | 1-163-037-11   | CERAMIC CHIP | 0.022μF  | 10% | 50V    | C423    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C210    | 1-117-247-91   | ELECT        | 820μF    | 20% | 6.3V   | C424    | 1-131-943-11 | ELECT        | 1200μF  | 30% | 200V   |
| C211    | 1-107-904-11   | ELECT        | 3.3μF    | 20% | 50V    | C500    | 1-127-822-51 | FILM         | 1μF     | 10% | 420V   |
| C212    | 1-117-247-91   | ELECT        | 820μF    | 20% | 6.3V   | C501    | 1-127-835-11 | ELECT        | 22μF    | 20% | 450V   |
| C214    | 1-117-247-91   | ELECT        | 820μF    | 20% | 6.3V   | C502    | 1-136-165-00 | FILM         | 0.1μF   | 5%  | 50V    |
| C215    | 1-117-295-91   | ELECT        | 82μF     | 20% | 16V    | C503    | 1-163-275-11 | CERAMIC CHIP | 1000pF  | 5%  | 50V    |
| C250    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C504    | 1-163-263-91 | CERAMIC CHIP | 330pF   | 5%  | 50V    |
| C252    | 1-117-276-51   | ELECT        | 1500μF   | 20% | 10V    | C505    | 1-163-133-00 | CERAMIC CHIP | 470pF   | 5%  | 50V    |
| C253    | 1-117-329-51   | ELECT        | 1500μF   | 20% | 25V    | C506    | 1-107-909-11 | ELECT        | 47μF    | 20% | 50V    |
| C254    | 1-117-329-51   | ELECT        | 1500μF   | 20% | 25V    | C507    | 1-163-133-00 | CERAMIC CHIP | 470pF   | 5%  | 50V    |
| C255    | 1-163-021-91   | CERAMIC CHIP | 0.01μF   | 10% | 50V    | C508    | 1-163-133-00 | CERAMIC CHIP | 470pF   | 5%  | 50V    |
| C256    | 1-117-344-51   | ELECT        | 1000μF   | 20% | 35V    | C509    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C257    | 1-163-021-91   | CERAMIC CHIP | 0.01μF   | 10% | 50V    | C510    | 1-115-340-11 | CERAMIC CHIP | 0.22μF  | 10% | 25V    |
| C258    | 1-115-185-11   | CERAMIC      | 0.033μF  | 10% | 50V    | C511    | 1-163-275-11 | CERAMIC CHIP | 1000pF  | 5%  | 50V    |
| C260    | 1-117-266-91   | ELECT        | 470μF    | 20% | 10V    | C512    | 1-163-275-11 | CERAMIC CHIP | 1000pF  | 5%  | 50V    |
| C261    | 1-117-325-91   | ELECT        | 330μF    | 20% | 25V    | C513    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C262    | 1-117-328-51   | ELECT        | 820μF    | 20% | 25V    | C514    | 1-163-263-91 | CERAMIC CHIP | 330pF   | 5%  | 50V    |
| C263    | 1-117-355-51   | ELECT        | 560μF    | 20% | 35V    | C515    | 1-163-017-00 | CERAMIC CHIP | 4700pF  | 10% | 50V    |
| C264    | 1-107-906-11   | ELECT        | 10μF     | 20% | 50V    | C516    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C268    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C517    | 1-131-924-11 | FILM         | 0.068μF | 5%  | 1.25KV |
| C269    | 1-163-021-91   | CERAMIC CHIP | 0.01μF   | 10% | 50V    | C518    | 1-131-924-11 | FILM         | 0.068μF | 5%  | 1.25KV |
| C270    | 1-163-021-91   | CERAMIC CHIP | 0.01μF   | 10% | 50V    | C519    | 1-131-924-11 | FILM         | 0.068μF | 5%  | 1.25KV |
| C271    | 1-163-021-91   | CERAMIC CHIP | 0.01μF   | 10% | 50V    | C600    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C274    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C601    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C275    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C602    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C300    | 1-163-021-91   | CERAMIC CHIP | 0.01μF   | 10% | 50V    | C604    | 1-131-945-11 | ELECT        | 470μF   | 20% | 100V   |
| C301    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C605    | 1-104-760-11 | CERAMIC CHIP | 0.047μF | 10% | 50V    |
| C302    | 1-107-823-11   | CERAMIC CHIP | 0.47μF   | 10% | 16V    | C606    | 1-164-344-11 | CERAMIC CHIP | 0.068μF | 10% | 25V    |
| C303    | 1-163-133-00   | CERAMIC CHIP | 470pF    | 5%  | 50V    | C607    | 1-131-945-11 | ELECT        | 470μF   | 20% | 100V   |
| C304    | 1-163-255-11   | CERAMIC CHIP | 150pF    | 5%  | 50V    | C608    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C305    | 1-163-275-11   | CERAMIC CHIP | 1000pF   | 5%  | 50V    | C609    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C306    | 1-163-275-11   | CERAMIC CHIP | 1000pF   | 5%  | 50V    | C610    | 1-107-906-11 | ELECT        | 10μF    | 20% | 50V    |
| C307    | 1-107-909-11   | ELECT        | 47μF     | 20% | 50V    | C611    | 1-117-272-11 | ELECT        | 180μF   | 20% | 10V    |
| C308    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C612    | 1-107-906-11 | ELECT        | 10μF    | 20% | 50V    |
| C309    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C613    | 1-107-906-11 | ELECT        | 10μF    | 20% | 50V    |
| C310    | 1-107-909-11   | ELECT        | 47μF     | 20% | 50V    | C614    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C311    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C615    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C312    | 1-104-760-11   | CERAMIC CHIP | 0.047μF  | 10% | 50V    | C616    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C313    | 1-163-143-00   | CERAMIC      | 1200pF   | 5%  | 50V    | C617    | 1-163-021-91 | CERAMIC CHIP | 0.01μF  | 10% | 50V    |
| C314    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C618    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C315    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C619    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C316    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C620    | 1-131-945-11 | ELECT        | 470μF   | 20% | 100V   |
| C317    | 1-115-340-11   | CERAMIC CHIP | 0.22μF   | 10% | 25V    | C621    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C350    | 1-163-255-11   | CERAMIC CHIP | 150pF    | 5%  | 50V    | C623    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C400    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C624    | 1-115-339-11 | CERAMIC CHIP | 0.1μF   | 10% | 50V    |
| C401    | 1-163-021-91   | CERAMIC CHIP | 0.01μF   | 10% | 50V    | C700    | 1-127-822-51 | FILM         | 1μF     | 10% | 420V   |
| C402    | 1-115-339-11   | CERAMIC CHIP | 0.1μF    | 10% | 50V    | C701    | 1-127-835-11 | ELECT        | 22μF    | 20% | 450V   |

# APS-136 M

| Ref.No.     | Part No.       | Description                 | Remark | Ref.No. | Part No.       | Description        | Remark |
|-------------|----------------|-----------------------------|--------|---------|----------------|--------------------|--------|
| C702        | 1-136-165-00   | FILM 0.1μF 5% 50V           |        | D263    | 8-719-914-43   | DIODE DAN202K-T146 |        |
| C703        | 1-163-275-11   | CERAMIC CHIP 1000pF 5% 50V  |        | D264    | 8-719-914-43   | DIODE DAN202K-T146 |        |
| C704        | 1-163-275-11   | CERAMIC CHIP 1000pF 5% 50V  |        | D265    | 8-719-914-44   | DIODE DAP202K-T146 |        |
| C705        | 1-163-275-11   | CERAMIC CHIP 1000pF 5% 50V  |        | D266    | 8-719-914-44   | DIODE DAP202K-T146 |        |
| C706        | 1-107-909-11   | ELECT 47μF 20% 50V          |        | D267    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| C707        | 1-163-133-00   | CERAMIC CHIP 470pF 5% 50V   |        | D268    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| C708        | 1-163-133-00   | CERAMIC CHIP 470pF 5% 50V   |        | D269    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| C709        | 1-115-339-11   | CERAMIC CHIP 0.1μF 10% 50V  |        | D270    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| C710        | 1-115-340-11   | CERAMIC CHIP 0.22μF 10% 25V |        | D300    | 8-719-060-30   | DIODE HZU7.5B2TRF  |        |
| C711        | 1-163-275-11   | CERAMIC CHIP 1000pF 5% 50V  |        | D301    | 8-719-071-94   | DIODE HRU0103ATRF  |        |
| C712        | 1-163-275-11   | CERAMIC CHIP 1000pF 5% 50V  |        | D302    | 8-719-071-94   | DIODE HRU0103ATRF  |        |
| C713        | 1-115-339-11   | CERAMIC CHIP 0.1μF 10% 50V  |        | D303    | 8-719-060-30   | DIODE HZU7.5B2TRF  |        |
| C714        | 1-163-263-91   | CERAMIC CHIP 330pF 5% 50V   |        | D304    | 8-719-071-94   | DIODE HRU0103ATRF  |        |
| C715        | 1-115-340-11   | CERAMIC CHIP 0.22μF 10% 25V |        | D305    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| C716        | 1-125-916-11   | FILM 0.018μF 5% 1.25KV      |        | D306    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| C717        | 1-125-916-11   | FILM 0.018μF 5% 1.25KV      |        | D307    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| C718        | 1-115-339-11   | CERAMIC CHIP 0.1μF 10% 50V  |        | D402    | 8-719-071-63   | DIODE HZU6.2BTRF   |        |
| <CONNECTOR> |                |                             |        | D403    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| CN1         | * 1-691-960-11 | PIN, CONNECTOR 3P           |        | D404    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| CN2         | * 1-580-843-11 | PIN, CONNECTOR (POWER)      |        | D405    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| CN4         | * 1-691-757-11 | PIN, CONNECTOR 8P           |        | D406    | 8-719-071-63   | DIODE HZU6.2BTRF   |        |
| CN5         | * 1-770-291-11 | PIN, CONNECTOR 7P           |        | D407    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| CN6         | * 1-564-507-11 | PLUG, CONNECTOR 4P          |        | D408    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| CN7         | * 1-564-596-11 | PLUG, CONNECTOR 15P         |        | D409    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| CN8         | * 1-564-511-11 | PLUG, CONNECTOR 8P          |        | D500    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| <DIODE>     |                |                             |        | D501    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| D100        | △ 8-719-055-11 | DIODE 05NH46                |        | D504    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| D103        | △ 8-719-055-11 | DIODE 05NH46                |        | D600    | 8-719-071-63   | DIODE HZU6.2BTRF   |        |
| D106        | 8-719-988-61   | DIODE 1SS355TE-17           |        | D601    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| D107        | 8-719-060-30   | DIODE HZU7.5B2TRF           |        | D602    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| D108        | 8-719-071-79   | DIODE HZU22B2TRF            |        | D603    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| D109        | 8-719-988-61   | DIODE 1SS355TE-17           |        | D605    | 8-719-071-63   | DIODE HZU6.2BTRF   |        |
| D110        | 8-719-313-16   | DIODE AU02A                 |        | D606    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| D111        | 8-719-313-16   | DIODE AU02A                 |        | D607    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| D112        | 8-719-988-61   | DIODE 1SS355TE-17           |        | D608    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| D113        | 8-719-063-70   | DIODE D1NL20U               |        | D700    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| D114        | 8-719-063-70   | DIODE D1NL20U               |        | D701    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| D116        | 8-719-931-52   | DIODE HZS30NTD              |        | D704    | 8-719-988-61   | DIODE 1SS355TE-17  |        |
| D117        | 8-719-988-61   | DIODE 1SS355TE-17           |        | <FUSE>  |                |                    |        |
| D118        | 8-719-988-61   | DIODE 1SS355TE-17           |        | F101    | △ 1-576-365-11 | FUSE (15A/250V)    |        |
| D119        | 8-719-988-61   | DIODE 1SS355TE-17           |        | <IC>    |                |                    |        |
| D150        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC101   | 8-759-464-69   | IC FA5317P         |        |
| D151        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC102   | 8-759-098-24   | IC PQ30RV11        |        |
| D152        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC150   | 8-759-470-07   | IC CXA8038AP       |        |
| D153        | 8-719-063-70   | DIODE D1NL20U               |        | IC200   | 8-759-067-14   | IC TA79L005P-TPE6  |        |
| D154        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC201   | 8-759-648-34   | IC TA76431AS       |        |
| D155        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC203   | 8-759-170-73   | IC TA78L12S        |        |
| D201        | 8-719-063-70   | DIODE D1NL20U               |        | IC250   | 8-759-648-34   | IC TA76431AS       |        |
| D202        | 8-719-063-70   | DIODE D1NL20U               |        | IC252   | 8-759-060-02   | IC BA10324AF-E2    |        |
| D203        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC300   | 8-759-354-43   | IC TK83854D        |        |
| D205        | 8-719-071-94   | DIODE HRU0103ATRF           |        | IC301   | 8-759-510-73   | IC BA10393F-E2     |        |
| D206        | 8-719-071-94   | DIODE HRU0103ATRF           |        | IC302   | 8-759-648-34   | IC TA76431AS       |        |
| D253        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC400   | 8-759-510-71   | IC BA10358F-E2     |        |
| D254        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC401   | 8-759-648-34   | IC TA76431AS       |        |
| D255        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC402   | 8-759-060-02   | IC BA10324AF-E2    |        |
| D256        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC403   | 8-759-510-71   | IC BA10358F-E2     |        |
| D257        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC500   | 8-759-470-07   | IC CXA8038AP       |        |
| D258        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC600   | 8-759-510-71   | IC BA10358F-E2     |        |
| D259        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC601   | 8-759-648-34   | IC TA76431AS       |        |
| D260        | 8-719-988-61   | DIODE 1SS355TE-17           |        | IC602   | 8-759-060-02   | IC BA10324AF-E2    |        |
| D261        | 8-719-071-63   | DIODE HZU6.2BTRF            |        | IC603   | 8-759-510-71   | IC BA10358F-E2     |        |
|             |                |                             |        | IC700   | 8-759-470-07   | IC CXA8038AP       |        |

| Ref.No. | Part No.        | Description                  | Remark | Ref.No.    | Part No.       | Description                  | Remark |
|---------|-----------------|------------------------------|--------|------------|----------------|------------------------------|--------|
|         | <COIL>          |                              |        | Q406       | 8-729-033-07   | TRANSISTOR 2SK2425           |        |
| L100    | 1-416-489-11    | COIL,CHOKE                   | 143μH  | Q500       | 8-729-141-48   | TRANSISTOR 2SB624-BV345      |        |
| L101    | 1-419-372-11    | COIL,CHOKE                   |        | Q501       | 8-729-141-48   | TRANSISTOR 2SB624-BV345      |        |
| L201    | 1-406-703-21    | COIL,CHOKE                   | 3.3μH  | Q600       | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR |        |
| L202    | 1-406-703-21    | COIL,CHOKE                   | 3.3μH  | Q601       | 8-729-040-89   | TRANSISTOR 2SK1590-T1B       |        |
| L203    | 1-406-703-21    | COIL,CHOKE                   | 3.3μH  | Q602       | 8-729-120-28   | TRANSISTOR 2SC2412K-T-146-QR |        |
| L250    | 1-419-394-21    | COIL,CHOKE                   | 2.2μH  | Q603       | 8-729-040-89   | TRANSISTOR 2SK1590-T1B       |        |
| L251    | 1-419-394-21    | COIL,CHOKE                   | 2.2μH  | Q604       | 8-729-040-89   | TRANSISTOR 2SK1590-T1B       |        |
| L252    | 1-416-965-21    | COIL,CHOKE                   | 1μH    | Q605       | 8-729-040-89   | TRANSISTOR 2SK1590-T1B       |        |
| L253    | 1-406-703-21    | COIL,CHOKE                   | 3.3μH  | Q606       | 8-729-050-53   | TRANSISTOR 2SK3212-01        |        |
| L254    | 1-406-703-21    | COIL,CHOKE                   | 3.3μH  | Q700       | 8-729-141-48   | TRANSISTOR 2SB624-BV345      |        |
| L400    | 1-469-371-11    | COIL, CHOKE                  | 4.2μF  | Q701       | 8-729-141-48   | TRANSISTOR 2SB624-BV345      |        |
| L401    | 1-416-616-11    | COIL,CHOKE                   | 2.2μH  | <RESISTOR> |                |                              |        |
| L501    | 1-419-371-11    | COIL,CHOKE                   | 484μH  | R100       | △ 1-260-131-81 | CARBON                       | 470K   |
| L600    | 1-416-616-11    | COIL,CHOKE                   | 2.2μH  | R101       | 1-240-313-11   | CEMENT                       | 4.7    |
|         | <FILTER>        |                              |        | R102       | 1-249-397-11   | CARBON                       | 22     |
| LF100   | △ 1-423-804-11  | TRANSFORMER, LINE FILTER     |        | R103       | 1-240-313-11   | CEMENT                       | 4.7    |
| LF101   | △ 1-435-556-11  | TRANSFORMER, LINE FILTER     |        | R104       | 1-240-910-11   | CEMENT                       | 4.7    |
|         | <PHOTO COUPLER> |                              |        | R105       | 1-249-407-91   | CARBON                       | 150    |
| PH100   | 8-719-062-33    | PHOTO TRIAC COUPLER S21MT2F  |        | R106       | 1-219-393-11   | METAL PLATE                  | 0.05   |
| PH101   | 8-749-010-64    | PHOTO COUPLER PC123FY2       |        | R107       | 1-219-393-11   | METAL PLATE                  | 0.05   |
| PH102   | 8-749-010-64    | PHOTO COUPLER PC123FY2       |        | R109       | 1-249-393-11   | CARBON                       | 10     |
| PH103   | 8-749-010-64    | PHOTO COUPLER PC123FY2       |        | R110       | 1-249-393-11   | CARBON                       | 10     |
| PH104   | 8-749-010-64    | PHOTO COUPLER PC123FY2       |        | R111       | 1-249-393-11   | CARBON                       | 10     |
| PH105   | 8-749-010-64    | PHOTO COUPLER PC123FY2       |        | R112       | 1-249-429-11   | RES,CHIP                     | 10K    |
| PH500   | 8-749-010-64    | PHOTO COUPLER PC123FY2       |        | R113       | 1-249-429-11   | RES,CHIP                     | 10K    |
| PH501   | 8-749-010-64    | PHOTO COUPLER PC123FY2       |        | R114       | 1-249-429-11   | RES,CHIP                     | 10K    |
| PH502   | 8-749-010-64    | PHOTO COUPLER PC123FY2       |        | R115       | 1-215-882-51   | METAL OXIDE                  | 22     |
| PH700   | 8-749-010-64    | PHOTO COUPLER PC123FY2       |        | R116       | 1-216-079-00   | RES,CHIP                     | 18K    |
| PH701   | 8-749-010-64    | PHOTO COUPLER PC123FY2       |        | R117       | 1-216-065-91   | RES,CHIP                     | 4.7K   |
| PH702   | 8-749-010-64    | PHOTO COUPLER PC123FY2       |        | R118       | 1-216-073-00   | RES,CHIP                     | 10K    |
|         | <TRANSISTOR>    |                              |        | R119       | 1-216-065-91   | RES,CHIP                     | 4.7K   |
| Q103    | 8-729-026-49    | TRANSISTOR 2SA1037AK-T146-QR |        | R120       | 1-249-413-11   | CARBON                       | 470    |
| Q104    | 8-729-026-49    | TRANSISTOR 2SA1037AK-T146-QR |        | R121       | 1-216-070-00   | RES,CHIP                     | 7.5K   |
| Q106    | 8-729-052-31    | TRANSISTOR 2SJ496T2          |        | R122       | 1-216-308-00   | RES,CHIP                     | 4.7    |
| Q150    | 8-729-141-48    | TRANSISTOR 2SB624-BV345      |        | R124       | 1-215-903-11   | METAL OXIDE                  | 68K    |
| Q151    | 8-729-141-48    | TRANSISTOR 2SB624-BV345      |        | R125       | 1-216-017-91   | RES,CHIP                     | 47     |
| Q200    | 8-729-120-28    | TRANSISTOR 2SC2412K-T-146-QR |        | R126       | 1-215-903-11   | METAL OXIDE                  | 68K    |
| Q201    | 8-729-900-53    | TRANSISTOR DTC114EKA-T146    |        | R127       | 1-215-904-11   | METAL OXIDE                  | 100K   |
| Q202    | 8-729-026-49    | TRANSISTOR 2SA1037AK-T146-QR |        | R128       | 1-216-037-00   | RES,CHIP                     | 330    |
| Q203    | 8-729-120-28    | TRANSISTOR 2SC2412K-T-146-QR |        | R129       | 1-240-383-21   | RES,CHIP                     | 6.2K   |
| Q205    | 8-729-026-49    | TRANSISTOR 2SA1037AK-T146-QR |        | R130       | 1-216-029-00   | RES,CHIP                     | 150    |
| Q206    | 8-729-120-28    | TRANSISTOR 2SC2412K-T-146-QR |        | R131       | 1-216-047-00   | RES,CHIP                     | 820    |
| Q250    | 8-729-026-49    | TRANSISTOR 2SA1037AK-T146-QR |        | R132       | 1-216-345-11   | METAL OXIDE                  | 0.47   |
| Q251    | 8-729-120-28    | TRANSISTOR 2SC2412K-T-146-QR |        | R133       | 1-216-089-91   | RES,CHIP                     | 47K    |
| Q252    | 8-729-120-28    | TRANSISTOR 2SC2412K-T-146-QR |        | R134       | 1-216-061-00   | RES,CHIP                     | 3.3K   |
| Q253    | 8-729-120-28    | TRANSISTOR 2SC2412K-T-146-QR |        | R135       | 1-216-073-00   | RES,CHIP                     | 10K    |
| Q300    | 8-729-040-89    | TRANSISTOR 2SK1590-T1B       |        | R136       | 1-216-089-91   | RES,CHIP                     | 47K    |
| Q301    | 8-729-026-49    | TRANSISTOR 2SA1037AK-T146-QR |        | R137       | 1-216-085-00   | RES,CHIP                     | 33K    |
| Q302    | 8-729-040-88    | TRANSISTOR 2SB1240TV2QR      |        | R139       | 1-216-308-00   | RES,CHIP                     | 4.7    |
| Q303    | 8-729-040-23    | TRANSISTOR 2SD1862TV2QR      |        | R140       | 1-216-308-00   | RES,CHIP                     | 4.7    |
| Q304    | 8-729-026-49    | TRANSISTOR 2SA1037AK-T146-QR |        | R141       | 1-216-308-00   | RES,CHIP                     | 4.7    |
| Q305    | 8-729-040-89    | TRANSISTOR 2SK1590-T1B       |        | R150       | 1-247-807-31   | CARBON                       | 100    |
| Q400    | 8-729-120-28    | TRANSISTOR 2SC2412K-T-146-QR |        | R151       | 1-249-401-11   | CARBON                       | 47     |
| Q401    | 8-729-040-89    | TRANSISTOR 2SK1590-T1B       |        | R152       | 1-216-081-00   | RES,CHIP                     | 22K    |
| Q402    | 8-729-120-28    | TRANSISTOR 2SC2412K-T-146-QR |        | R153       | 1-216-025-00   | RES,CHIP                     | 100    |
| Q403    | 8-729-040-89    | TRANSISTOR 2SK1590-T1B       |        | R154       | 1-216-029-00   | RES,CHIP                     | 150    |
| Q404    | 8-729-040-89    | TRANSISTOR 2SK1590-T1B       |        | R155       | 1-216-065-91   | RES,CHIP                     | 4.7K   |
| Q405    | 8-729-040-89    | TRANSISTOR 2SK1590-T1B       |        | R156       | 1-216-065-91   | RES,CHIP                     | 4.7K   |
|         |                 |                              |        | R157       | 1-216-065-91   | RES,CHIP                     | 4.7K   |
|         |                 |                              |        | R158       | 1-216-065-91   | RES,CHIP                     | 4.7K   |
|         |                 |                              |        | R159       | 1-216-073-00   | RES,CHIP                     | 10K    |
|         |                 |                              |        | R160       | 1-216-308-00   | RES,CHIP                     | 4.7    |

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| Ref.No. | Part No.     | Description | Remark |    |       | Ref.No. | Part No.     | Description | Remark |    |        |
|---------|--------------|-------------|--------|----|-------|---------|--------------|-------------|--------|----|--------|
| R161    | 1-216-308-00 | RES,CHIP    | 4.7    | 5% | 1/10W | R277    | 1-240-365-21 | RES,CHIP    | 1.1K   | 1% | 1/10W  |
| R162    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W | R278    | 1-240-365-21 | RES,CHIP    | 1.1K   | 1% | 1/10W  |
| R163    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W | R279    | 1-240-388-21 | RES,CHIP    | 10K    | 1% | 1/10W  |
| R164    | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W  | R280    | 1-240-365-21 | RES,CHIP    | 1.1K   | 1% | 1/10W  |
| R165    | 1-216-079-00 | RES,CHIP    | 18K    | 5% | 1/10W | R281    | 1-240-370-21 | RES,CHIP    | 1.8K   | 1% | 1/10W  |
| R166    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R282    | 1-240-388-21 | RES,CHIP    | 10K    | 1% | 1/10W  |
| R167    | 1-216-341-11 | METAL OXIDE | 0.22   | 5% | 1W F  | R283    | 1-240-349-21 | RES,CHIP    | 240    | 1% | 1/10W  |
| R190    | 1-247-791-91 | CARBON      | 22     | 5% | 1/4W  | R284    | 1-240-350-21 | RES,CHIP    | 270    | 1% | 1/10W  |
| R191    | 1-249-437-11 | RES,CHIP    | 47K    | 5% | 1/4W  | R285    | 1-240-396-21 | RES,CHIP    | 22K    | 1% | 1/10W  |
| R192    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R286    | 1-240-349-21 | RES,CHIP    | 240    | 1% | 1/10W  |
| R201    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W | R287    | 1-240-370-21 | RES,CHIP    | 1.8K   | 1% | 1/10W  |
| R202    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W | R288    | 1-216-113-00 | RES,CHIP    | 470K   | 5% | 1/10W  |
| R203    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W | R289    | 1-240-562-21 | RES,CHIP    | 47K    | 1% | 1/10W  |
| R204    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W | R290    | 1-240-566-21 | METAL       | 68K    | 1% | 1/10W  |
| R205    | 1-240-368-21 | RES,CHIP    | 1.5K   | 1% | 1/10W | R291    | 1-240-386-21 | RES,CHIP    | 8.2K   | 1% | 1/10W  |
| R206    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R292    | 1-240-372-21 | RES,CHIP    | 2.2K   | 1% | 1/10W  |
| R207    | 1-240-380-21 | RES,CHIP    | 4.7K   | 1% | 1/10W | R293    | 1-240-374-21 | RES,CHIP    | 2.7K   | 1% | 1/10W  |
| R208    | 1-240-365-21 | RES,CHIP    | 1.1K   | 1% | 1/10W | R294    | 1-240-376-21 | RES,CHIP    | 3.3K   | 1% | 1/10W  |
| R209    | 1-240-376-21 | RES,CHIP    | 3.3K   | 1% | 1/10W | R295    | 1-240-386-21 | RES,CHIP    | 8.2K   | 1% | 1/10W  |
| R210    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R296    | 1-240-376-21 | RES,CHIP    | 3.3K   | 1% | 1/10W  |
| R211    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R297    | 1-240-394-21 | RES,CHIP    | 18K    | 1% | 1/10W  |
| R212    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R298    | 1-240-376-21 | RES,CHIP    | 3.3K   | 1% | 1/10W  |
| R213    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R299    | 1-240-372-21 | RES,CHIP    | 2.2K   | 1% | 1/10W  |
| R214    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W | R300    | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W   |
| R215    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R301    | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W   |
| R216    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R302    | 1-260-130-91 | CARBON      | 390K   | 5% | 1/2W   |
| R218    | 1-240-372-21 | RES,CHIP    | 2.2K   | 1% | 1/10W | R304    | 1-260-130-91 | CARBON      | 390K   | 5% | 1/2W   |
| R219    | 1-240-364-21 | RES,CHIP    | 1K     | 1% | 1/10W | R305    | 1-216-109-00 | RES,CHIP    | 330K   | 5% | 1/10W  |
| R220    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R306    | 1-260-130-91 | CARBON      | 390K   | 5% | 1/2W   |
| R221    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R307    | 1-260-130-91 | CARBON      | 390K   | 5% | 1/2W   |
| R222    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R309    | 1-216-097-91 | RES,CHIP    | 100K   | 5% | 1/10W  |
| R223    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R310    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W  |
| R224    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W | R311    | 1-260-130-91 | CARBON      | 390K   | 5% | 1/2W   |
| R225    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R312    | 1-260-130-91 | CARBON      | 390K   | 5% | 1/2W   |
| R233    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R313    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5% | 1/10W  |
| R234    | 1-216-057-00 | RES,CHIP    | 2.2K   | 5% | 1/10W | R314    | 1-216-052-00 | RES,CHIP    | 1.3K   | 5% | 1/10W  |
| R248    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R315    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W  |
| R249    | 1-216-057-00 | RES,CHIP    | 2.2K   | 5% | 1/10W | R316    | 1-216-062-00 | RES,CHIP    | 3.6K   | 5% | 1/10W  |
| R250    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R317    | 1-216-121-91 | RES,CHIP    | 1M     | 5% | 1/10W  |
| R251    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W | R318    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W  |
| R252    | 1-240-386-21 | RES,CHIP    | 8.2K   | 1% | 1/10W | R319    | 1-216-105-91 | RES,CHIP    | 220K   | 5% | 1/10W  |
| R253    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R320    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W  |
| R254    | 1-216-079-00 | RES,CHIP    | 18K    | 5% | 1/10W | R321    | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W   |
| R255    | 1-216-079-00 | RES,CHIP    | 18K    | 5% | 1/10W | R322    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W  |
| R256    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R323    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W  |
| R257    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R324    | 1-249-393-11 | CARBON      | 10     | 5% | 1/4W F |
| R258    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R325    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W  |
| R259    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R326    | 1-216-101-00 | RES,CHIP    | 150K   | 5% | 1/10W  |
| R260    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R327    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W  |
| R261    | 1-240-394-21 | RES,CHIP    | 18K    | 1% | 1/10W | R328    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W  |
| R262    | 1-240-375-21 | RES,CHIP    | 3K     | 1% | 1/10W | R329    | 1-260-128-11 | CARBON      | 270K   | 5% | 1/2W   |
| R263    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R339    | 1-260-128-11 | CARBON      | 270K   | 5% | 1/2W   |
| R264    | 1-240-380-21 | RES,CHIP    | 4.7K   | 1% | 1/10W | R340    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W  |
| R265    | 1-240-346-21 | RES,CHIP    | 180    | 1% | 1/10W | R341    | 1-216-042-00 | RES,CHIP    | 510    | 5% | 1/10W  |
| R266    | 1-240-376-21 | RES,CHIP    | 3.3K   | 1% | 1/10W | R342    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W  |
| R267    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R343    | 1-216-077-91 | RES,CHIP    | 15K    | 5% | 1/10W  |
| R268    | 1-240-380-21 | RES,CHIP    | 4.7K   | 1% | 1/10W | R344    | 1-214-929-00 | METAL       | 470K   | 1% | 1/2W   |
| R269    | 1-240-351-21 | RES,CHIP    | 300    | 1% | 1/10W | R345    | 1-214-929-00 | METAL       | 470K   | 1% | 1/2W   |
| R270    | 1-240-372-21 | RES,CHIP    | 2.2K   | 1% | 1/10W | R346    | 1-240-381-21 | RES,CHIP    | 5.1K   | 1% | 1/10W  |
| R271    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R347    | 1-216-037-00 | RES,CHIP    | 330    | 5% | 1/10W  |
| R272    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R348    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W  |
| R273    | 1-240-380-21 | RES,CHIP    | 4.7K   | 1% | 1/10W | R349    | 1-247-791-91 | CARBON      | 22     | 5% | 1/4W   |
| R274    | 1-240-326-21 | RES,CHIP    | 27     | 1% | 1/10W | R351    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W  |
| R275    | 1-240-367-21 | RES,CHIP    | 1.3K   | 1% | 1/10W | R352    | 1-216-113-00 | RES,CHIP    | 470K   | 5% | 1/10W  |
| R276    | 1-240-388-21 | RES,CHIP    | 10K    | 1% | 1/10W | R400    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W  |

| Ref.No. | Part No.     | Description | Remark |    |       | Ref.No. | Part No.     | Description | Remark |    |       |
|---------|--------------|-------------|--------|----|-------|---------|--------------|-------------|--------|----|-------|
| R401    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W | R471    | 1-240-566-21 | METAL       | 68K    | 1% | 1/10W |
| R402    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R472    | 1-240-570-21 | RES,CHIP    | 100K   | 1% | 1/10W |
| R403    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W | R473    | 1-240-570-21 | RES,CHIP    | 100K   | 1% | 1/10W |
| R404    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W | R474    | 1-216-095-00 | RES,CHIP    | 82K    | 5% | 1/10W |
| R405    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W | R500    | 1-247-807-31 | CARBON      | 100    | 5% | 1/4W  |
| R406    | 1-216-070-00 | RES,CHIP    | 7.5K   | 5% | 1/10W | R501    | 1-249-401-11 | CARBON      | 47     | 5% | 1/4W  |
| R407    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R502    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W |
| R408    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W | R503    | 1-240-349-21 | RES,CHIP    | 240    | 1% | 1/10W |
| R409    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R504    | 1-240-337-21 | RES,CHIP    | 75     | 1% | 1/10W |
| R410    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R505    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W |
| R411    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W | R506    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W |
| R412    | 1-240-566-21 | METAL       | 68K    | 1% | 1/10W | R507    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W |
| R413    | 1-240-566-21 | METAL       | 68K    | 1% | 1/10W | R508    | 1-216-308-00 | RES,CHIP    | 4.7    | 5% | 1/10W |
| R414    | 1-240-378-21 | RES,CHIP    | 3.9K   | 1% | 1/10W | R509    | 1-216-308-00 | RES,CHIP    | 4.7    | 5% | 1/10W |
| R415    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R510    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W |
| R416    | 1-240-364-21 | RES,CHIP    | 1K     | 1% | 1/10W | R511    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5% | 1/10W |
| R417    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W | R512    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W |
| R418    | 1-240-364-21 | RES,CHIP    | 1K     | 1% | 1/10W | R513    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W |
| R419    | 1-240-364-21 | RES,CHIP    | 1K     | 1% | 1/10W | R514    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W |
| R420    | 1-240-388-21 | RES,CHIP    | 10K    | 1% | 1/10W | R515    | 1-243-639-11 | METAL PLATE | 0.1    | 2% | 5W F  |
| R421    | 1-243-638-31 | METAL PLATE | 0.05   | 2% | 2W F  | R516    | 1-240-397-21 | RES,CHIP    | 24K    | 1% | 1/10W |
| R422    | 1-240-389-21 | RES,CHIP    | 11K    | 1% | 1/10W | R517    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W |
| R423    | 1-216-105-91 | RES,CHIP    | 220K   | 5% | 1/10W | R600    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W |
| R424    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5% | 1/10W | R601    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W |
| R425    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5% | 1/10W | R602    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W |
| R426    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W | R603    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W |
| R427    | 1-216-089-91 | RES,CHIP    | 47K    |    | 1/10W | R604    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W |
| R428    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R605    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W |
| R429    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W | R606    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W |
| R430    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R607    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W |
| R431    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W | R608    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W |
| R433    | 1-240-570-21 | RES,CHIP    | 100K   | 1% | 1/10W | R609    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W |
| R434    | 1-216-085-00 | RES,CHIP    | 33K    | 5% | 1/10W | R610    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W |
| R436    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R611    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W |
| R437    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R612    | 1-215-457-00 | METAL       | 33K    | 1% | 1/4W  |
| R438    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R613    | 1-215-457-00 | METAL       | 33K    | 1% | 1/4W  |
| R439    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R614    | 1-240-375-21 | RES,CHIP    | 3K     | 1% | 1/10W |
| R441    | 1-240-570-21 | RES,CHIP    | 100K   | 1% | 1/10W | R615    | 1-216-085-00 | RES,CHIP    | 33K    | 5% | 1/10W |
| R442    | 1-240-570-21 | RES,CHIP    | 100K   | 1% | 1/10W | R616    | 1-240-364-21 | RES,CHIP    | 1K     | 1% | 1/10W |
| R443    | 1-240-371-21 | RES,CHIP    | 2K     | 1% | 1/10W | R617    | 1-216-065-91 | RES,CHIP    | 4.7K   | 5% | 1/10W |
| R444    | 1-240-382-21 | RES,CHIP    | 5.6K   | 1% | 1/10W | R618    | 1-240-364-21 | RES,CHIP    | 1K     | 1% | 1/10W |
| R445    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R619    | 1-240-364-21 | RES,CHIP    | 1K     | 1% | 1/10W |
| R446    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R620    | 1-240-388-21 | RES,CHIP    | 10K    | 1% | 1/10W |
| R447    | 1-240-396-21 | RES,CHIP    | 22K    | 1% | 1/10W | R621    | 1-243-638-31 | METAL PLATE | 0.05   | 2% | 2W F  |
| R448    | 1-240-368-21 | RES,CHIP    | 1.5K   | 1% | 1/10W | R622    | 1-240-388-21 | RES,CHIP    | 10K    | 1% | 1/10W |
| R449    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W | R623    | 1-216-105-91 | RES,CHIP    | 220K   | 5% | 1/10W |
| R450    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W | R624    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5% | 1/10W |
| R451    | 1-242-914-11 | CEMENT      | 100    | 5% | 5W    | R625    | 1-216-061-00 | RES,CHIP    | 3.3K   | 5% | 1/10W |
| R452    | 1-240-388-21 | RES,CHIP    | 10K    | 1% | 1/10W | R626    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W |
| R453    | 1-240-368-21 | RES,CHIP    | 1.5K   | 1% | 1/10W | R627    | 1-216-089-91 | RES,CHIP    | 47K    |    | 1/10W |
| R454    | 1-240-570-21 | RES,CHIP    | 100K   | 1% | 1/10W | R628    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W |
| R455    | 1-240-570-21 | RES,CHIP    | 100K   | 1% | 1/10W | R629    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W |
| R456    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W | R630    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W |
| R457    | 1-240-570-21 | RES,CHIP    | 100K   | 1% | 1/10W | R631    | 1-216-081-00 | RES,CHIP    | 22K    | 5% | 1/10W |
| R459    | 1-240-383-21 | RES,CHIP    | 6.2K   | 1% | 1/10W | R632    | 1-240-566-21 | METAL       | 68K    | 1% | 1/10W |
| R460    | 1-242-916-11 | CEMENT      | 16K    | 5% | 5W    | R633    | 1-216-085-00 | RES,CHIP    | 33K    | 5% | 1/10W |
| R461    | 1-216-113-00 | RES,CHIP    | 470K   | 5% | 1/10W | R635    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W |
| R462    | 1-242-916-11 | CEMENT      | 16K    | 5% | 5W    | R636    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W |
| R463    | 1-240-365-21 | RES,CHIP    | 1.1K   | 1% | 1/10W | R637    | 1-216-049-11 | RES,CHIP    | 1K     | 5% | 1/10W |
| R465    | 1-216-393-81 | METAL OXIDE | 2.2    | 5% | 3W    | R638    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W |
| R466    | 1-216-393-81 | METAL OXIDE | 2.2    | 5% | 3W    | R640    | 1-214-913-00 | METAL       | 100K   | 1% | 1/2W  |
| R467    | 1-242-916-11 | CEMENT      | 16K    | 5% | 5W    | R641    | 1-215-457-00 | METAL       | 33K    | 1% | 1/4W  |
| R468    | 1-242-914-11 | CEMENT      | 100    | 5% | 5W    | R642    | 1-240-380-21 | RES,CHIP    | 4.7K   | 1% | 1/10W |
| R469    | 1-242-914-11 | CEMENT      | 100    | 5% | 5W    | R643    | 1-240-382-21 | RES,CHIP    | 5.6K   | 1% | 1/10W |
| R470    | 1-240-566-21 | METAL       | 68K    | 1% | 1/10W | R644    | 1-216-073-00 | RES,CHIP    | 10K    | 5% | 1/10W |

| Ref.No.             | Part No.     | Description            | Remark |       |       | Ref.No.                          | Part No.       | Description                     | Remark |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
|---------------------|--------------|------------------------|--------|-------|-------|----------------------------------|----------------|---------------------------------|--------|--------------|----------------|-------|--------------|------------|------|-------|-------|-------|--------------|------------|------|-------|-------|-------|--------------|----------|-----|----|-------|
| R645                | 1-216-049-11 | RES,CHIP               | 1K     | 5%    | 1/10W |                                  | * A-1391-046-A | S1 MOUNT                        |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R646                | 1-240-389-21 | RES,CHIP               | 11K    | 1%    | 1/10W |                                  | *****          |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R647                | 1-240-368-21 | RES,CHIP               | 1.5K   | 1%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R648                | 1-216-073-00 | RES,CHIP               | 10K    | 5%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R649                | 1-216-049-11 | RES,CHIP               | 1K     | 5%    | 1/10W |                                  | <CAPACITOR>    |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R650                | 1-242-913-11 | CEMENT                 | 15     | 5%    | 5W    | C1201                            | 1-126-392-11   | ELECT CHIP                      | 100μF  | 20%          | 6.3V           |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R651                | 1-240-388-21 | RES,CHIP               | 10K    | 1%    | 1/10W | C1202                            | 1-163-021-91   | CERAMIC CHIP                    | 0.01μF | 10%          | 50V            |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R652                | 1-240-368-21 | RES,CHIP               | 1.5K   | 1%    | 1/10W | C1203                            | 1-163-021-91   | CERAMIC CHIP                    | 0.01μF | 10%          | 50V            |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R653                | 1-242-941-21 | RES,CHIP               | 120K   | 1%    | 1/10W | C1204                            | 1-163-021-91   | CERAMIC CHIP                    | 0.01μF | 10%          | 50V            |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R654                | 1-242-941-21 | RES,CHIP               | 120K   | 1%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R655                | 1-216-073-00 | RES,CHIP               | 10K    | 5%    | 1/10W | <CONNECTOR>                      |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R656                | 1-240-362-21 | RES,CHIP               | 820    | 1%    | 1/10W | CN1201                           | 1-506-482-11   | PIN, CONNECTOR 3P               |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R658                | 1-240-392-21 | RES,CHIP               | 15K    | 1%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R659                | 1-215-896-00 | METAL                  | 4.7K   | 5%    | 2W    |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R660                | 1-216-113-00 | RES,CHIP               | 470K   | 5%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
|                     |              |                        |        |       |       |                                  |                |                                 | <IC>   |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R661                | 1-215-896-00 | METAL                  | 4.7K   | 5%    | 2W    | IC1201                           | 8-759-947-34   | IC LM35DZ                       |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R662                | 1-242-913-11 | CEMENT                 | 15     | 5%    | 5W    |                                  |                |                                 | IC1202 | 8-759-510-71 | IC UPC358G2-T1 |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R663                | 1-216-689-11 | METAL                  | 39K    | 0.50% | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R700                | 1-247-807-31 | CARBON                 | 100    | 5%    | 1/4W  |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R701                | 1-249-401-11 | CARBON                 | 47     | 5%    | 1/4W  |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
|                     |              |                        |        |       |       | <RESISTOR>                       |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R703                | 1-216-073-00 | RES,CHIP               | 10K    | 5%    | 1/10W | R1201                            | 1-216-627-11   | METAL CHIP                      | 100    | 0.50%        | 1/10W          |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R704                | 1-240-332-21 | RES,CHIP               | 47     | 1%    | 1/10W |                                  |                |                                 |        |              |                | R1202 | 1-216-659-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |       |              |            |      |       |       |       |              |          |     |    |       |
| R705                | 1-240-352-21 | RES,CHIP               | 330    | 1%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       | R1203 | 1-216-671-11 | METAL CHIP | 6.8K | 0.50% | 1/10W |       |              |          |     |    |       |
| R706                | 1-216-065-91 | RES,CHIP               | 4.7K   | 5%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       | R1204 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R707                | 1-216-065-91 | RES,CHIP               | 4.7K   | 5%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R708                | 1-216-081-00 | RES,CHIP               | 22K    | 5%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R709                | 1-216-308-00 | RES,CHIP               | 4.7    | 5%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R710                | 1-216-308-00 | RES,CHIP               | 4.7    | 5%    | 1/10W | *****                            |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R711                | 1-216-073-00 | RES,CHIP               | 10K    | 5%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R712                | 1-216-049-11 | RES,CHIP               | 1K     | 5%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
|                     |              |                        |        |       |       | * A-1373-813-A UA MOUNT          |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
|                     |              |                        |        |       |       | *****                            |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R713                | 1-216-061-00 | RES,CHIP               | 3.3K   | 5%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R714                | 1-216-081-00 | RES,CHIP               | 22K    | 5%    | 1/10W |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R715                | 1-216-081-00 | RES,CHIP               | 22K    | 5%    | 1/10W | 1-900-254-68 CONNECTOR ASSY, LUG |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R716                | 1-243-638-31 | METAL PLATE            | 0.05   | 2%    | 2W F  |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R717                | 1-216-689-11 | METAL                  | 39K    | 0.50% | 1/10W | <CAPACITOR>                      |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| R718                | 1-216-073-00 | RES,CHIP               | 10K    | 5%    | 1/10W | C1101                            | 1-126-382-11   | ELECT                           | 100μF  | 20%          | 6.3V           |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| <VARIABLE RESISTOR> |              |                        |        |       |       | C1102                            | 1-163-031-11   | CERAMIC CHIP                    | 0.01μF |              | 50V            |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| RV150               | 1-241-764-11 | RES,ADJ,CERMET         |        | 10K   |       | <CONNECTOR>                      |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| RV201               | 1-241-762-11 | RES,ADJ,CERMET         |        | 2.2K  |       |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| RV250               | 1-241-762-11 | RES,ADJ,CERMET         |        | 2.2K  |       | CN1101                           | * 1-564-519-11 | PLUG, CONNECTOR 4P              |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| RV300               | 1-241-762-11 | RES,ADJ,CERMET         |        | 2.2K  |       | CN1102                           | * 1-564-524-11 | PLUG, CONNECTOR 9P              |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| RV400               | 1-241-760-11 | RES,ADJ,CERMET         |        | 470   |       |                                  |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| RV402               | 1-241-760-11 | RES,ADJ,CERMET         |        | 470   |       | <DIODE>                          |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| RV500               | 1-241-764-11 | RES,ADJ,CERMET         |        | 10K   |       | D1101                            | 8-719-110-17   | DIODE RD10ES-T1B2               |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| RV600               | 1-241-760-11 | RES,ADJ,CERMET         |        | 470   |       | D1102                            | 8-719-110-17   | DIODE RD10ES-T1B2               |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| RV602               | 1-241-760-11 | RES,ADJ,CERMET         |        | 470   |       | D1103                            | 8-719-073-01   | DIODE MA111-TX                  |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| RV700               | 1-241-764-11 | RES,ADJ,CERMET         |        | 10K   |       | D1111                            | 8-719-150-92   | DIODE RD33ES-T1B2               |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| <TRANSFORMER>       |              |                        |        |       |       | D1112                            | 8-719-150-92   | DIODE RD33ES-T1B2               |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| T101                | 1-435-218-11 | TRANSFORMER, CONVERTOR |        |       |       | D1113                            | 8-719-150-92   | DIODE RD33ES-T1B2               |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| T102                | 1-435-219-11 | TRANSFORMER, CONVERTOR |        |       |       | D1114                            | 8-719-150-92   | DIODE RD33ES-T1B2               |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| T105                | 1-426-931-21 | TRANSFORMER, DRIVE     |        |       |       | D1115                            | 8-719-110-17   | DIODE RD10ES-T1B2               |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| T501                | 1-435-216-11 | TRANSFORMER, CONVERTOR |        |       |       | D1116                            | 8-719-110-17   | DIODE RD10ES-T1B2               |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| T502                | 1-426-931-21 | TRANSFORMER, DRIVE     |        |       |       | <JACK>                           |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| T701                | 1-435-217-11 | TRANSFORMER, CONVERTOR |        |       |       | J1101                            | 1-573-969-11   | JACK BLOCK, PIN (AUDIO L/R OUT) |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| T702                | 1-426-931-21 | TRANSFORMER, DRIVE     |        |       |       | J1102                            | 1-695-605-11   | JACK, MINIATURE (CONTROL S OUT) |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| <VARISTOR>          |              |                        |        |       |       | J1103                            | 1-695-605-11   | JACK, MINIATURE (CONTROL S IN)  |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| VDR100△             | 1-809-909-22 | VARISTOR NV270D03-TB2  |        |       |       | <COIL>                           |                |                                 |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| VDR101△             | 1-801-625-21 | VARISTOR 470NR10D      |        |       |       | L1101                            | 1-422-613-11   | COIL, AIR CORE                  |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |
| VDR102△             | 1-801-625-21 | VARISTOR 470NR10D      |        |       |       | L1102                            | 1-422-613-11   | COIL, AIR CORE                  |        |              |                |       |              |            |      |       |       |       |              |            |      |       |       |       |              |          |     |    |       |

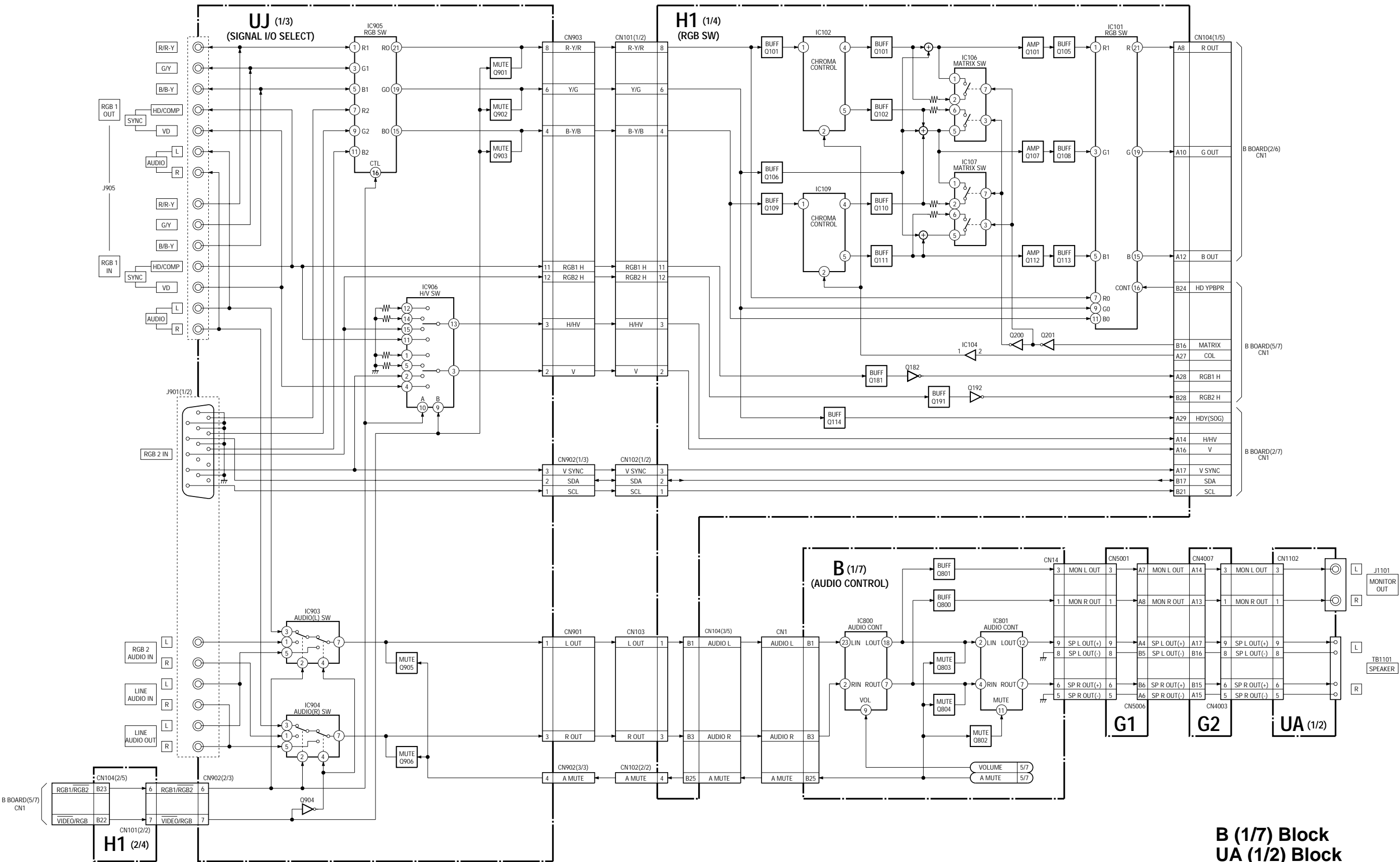
| Ref.No. | Part No.     | Description                   | Remark |     |       |              | Ref.No.      | Part No.                                   | Description        | Remark |     |     |  |
|---------|--------------|-------------------------------|--------|-----|-------|--------------|--------------|--------------------------------------------|--------------------|--------|-----|-----|--|
| L1103   | 1-422-613-11 | COIL, AIR CORE                |        |     |       |              | C974         | 1-126-786-11                               | ELECT              | 47μF   | 20% | 16V |  |
| L1104   | 1-422-613-11 | COIL, AIR CORE                |        |     |       |              | C981         | 1-164-004-11                               | CERAMIC CHIP       | 0.1μF  | 10% | 25V |  |
|         |              |                               |        |     |       |              | C982         | 1-164-004-11                               | CERAMIC CHIP       | 0.1μF  | 10% | 25V |  |
|         |              | <TRANSISTOR>                  |        |     |       |              | C990         | 1-164-004-11                               | CERAMIC CHIP       | 0.1μF  | 10% | 25V |  |
| Q1101   | 8-729-027-38 | TRANSISTOR DTA144EKA-T146     |        |     |       |              | C991         | 1-164-004-11                               | CERAMIC CHIP       | 0.1μF  | 10% | 25V |  |
| Q1102   | 1-801-806-11 | TRANSISTOR DTC144EKA-T146     |        |     |       |              | <CONNECTOR>  |                                            |                    |        |     |     |  |
| Q1103   | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-S   |        |     |       |              |              |                                            |                    |        |     |     |  |
|         |              | <RESISTOR>                    |        |     |       |              | CN901        | 1-506-485-11                               | PIN, CONNECTOR 6P  |        |     |     |  |
| R1101   | 1-216-097-91 | RES-CHIP                      | 100K   | 5%  | 1/10W | CN902        | 1-506-494-11 | PIN, CONNECTOR 15P                         |                    |        |     |     |  |
| R1102   | 1-216-097-91 | RES-CHIP                      | 100K   | 5%  | 1/10W | CN903        | 1-506-491-11 | PIN, CONNECTOR 12P                         |                    |        |     |     |  |
| R1103   | 1-216-025-91 | RES-CHIP                      | 100    | 5%  | 1/10W | CN905        | 1-750-628-11 | SOCKET, DIN 8P                             |                    |        |     |     |  |
| R1104   | 1-216-049-91 | RES-CHIP                      | 1K     | 5%  | 1/10W | <DIODE>      |              |                                            |                    |        |     |     |  |
| R1105   | 1-216-049-91 | RES-CHIP                      | 1K     | 5%  | 1/10W | D901         | 8-719-402-16 | DIODE 02CZ10-TE85L                         |                    |        |     |     |  |
| R1106   | 1-216-049-91 | RES-CHIP                      | 1K     | 5%  | 1/10W | D902         | 8-719-402-16 | DIODE 02CZ10-TE85L                         |                    |        |     |     |  |
| R1107   | 1-216-057-00 | RES-CHIP                      | 2.2K   | 5%  | 1/10W | D903         | 8-719-402-16 | DIODE 02CZ10-TE85L                         |                    |        |     |     |  |
| R1108   | 1-216-057-00 | RES-CHIP                      | 2.2K   | 5%  | 1/10W | D904         | 8-719-402-16 | DIODE 02CZ10-TE85L                         |                    |        |     |     |  |
| R1111   | 1-216-025-91 | RES-CHIP                      | 100    | 5%  | 1/10W | D905         | 8-719-402-16 | DIODE 02CZ10-TE85L                         |                    |        |     |     |  |
| R1112   | 1-216-025-91 | RES-CHIP                      | 100    | 5%  | 1/10W | D921         | 8-719-800-76 | DIODE 1SS226-TE85L                         |                    |        |     |     |  |
|         |              | <TERMINAL BOARD>              |        |     |       |              | D922         | 8-719-800-76                               | DIODE 1SS226-TE85L |        |     |     |  |
| TB1101  | 1-537-187-11 | TERMINAL, PUSH (4P) (SPEAKER) |        |     |       |              | D923         | 8-719-800-76                               | DIODE 1SS226-TE85L |        |     |     |  |
| *****   |              |                               |        |     |       |              |              |                                            |                    |        |     |     |  |
|         |              | * A-1373-812-A UJ MOUNT       |        |     |       |              | D926         | 8-719-402-16                               | DIODE 02CZ10-TE85L |        |     |     |  |
|         |              | *****                         |        |     |       |              | D927         | 8-719-402-16                               | DIODE 02CZ10-TE85L |        |     |     |  |
|         |              | <CAPACITOR>                   |        |     |       |              | D928         | 8-719-800-76                               | DIODE 1SS226-TE85L |        |     |     |  |
| C901    | 1-126-786-11 | ELECT                         | 47μF   | 20% | 16V   | D929         | 8-719-800-76 | DIODE 1SS226-TE85L                         |                    |        |     |     |  |
| C902    | 1-126-786-11 | ELECT                         | 47μF   | 20% | 16V   | D930         | 8-719-800-76 | DIODE 1SS226-TE85L                         |                    |        |     |     |  |
| C903    | 1-163-021-91 | CERAMIC CHIP                  | 0.01μF | 10% | 50V   | D933         | 8-719-402-16 | DIODE 02CZ10-TE85L                         |                    |        |     |     |  |
| C904    | 1-126-791-11 | ELECT                         | 10μF   | 20% | 16V   | D934         | 8-719-402-16 | DIODE 02CZ10-TE85L                         |                    |        |     |     |  |
| C905    | 1-126-791-11 | ELECT                         | 10μF   | 20% | 16V   | D940         | 8-719-976-96 | DIODE UDZ-TE-17-4.7B                       |                    |        |     |     |  |
| C921    | 1-126-786-11 | ELECT                         | 47μF   | 20% | 16V   | D941         | 8-719-976-96 | DIODE UDZ-TE-17-4.7B                       |                    |        |     |     |  |
| C922    | 1-164-004-11 | CERAMIC CHIP                  | 0.1μF  | 10% | 25V   | D942         | 8-719-976-96 | DIODE UDZ-TE-17-4.7B                       |                    |        |     |     |  |
| C923    | 1-126-786-11 | ELECT                         | 47μF   | 20% | 16V   | D943         | 8-719-976-96 | DIODE UDZ-TE-17-4.7B                       |                    |        |     |     |  |
| C924    | 1-164-004-11 | CERAMIC CHIP                  | 0.1μF  | 10% | 25V   | D944         | 8-719-976-96 | DIODE UDZ-TE-17-4.7B                       |                    |        |     |     |  |
| C925    | 1-126-786-11 | ELECT                         | 47μF   | 20% | 16V   | D945         | 8-719-976-96 | DIODE UDZ-TE-17-4.7B                       |                    |        |     |     |  |
| C926    | 1-164-004-11 | CERAMIC CHIP                  | 0.1μF  | 10% | 25V   | D946         | 8-719-976-96 | DIODE UDZ-TE-17-4.7B                       |                    |        |     |     |  |
| C927    | 1-126-320-11 | ELECT                         | 10μF   | 20% | 16V   | D947         | 8-719-976-96 | DIODE UDZ-TE-17-4.7B                       |                    |        |     |     |  |
| C928    | 1-124-290-00 | ELECT                         | 47μF   | 20% | 10V   | D951         | 8-719-402-16 | DIODE 02CZ10-TE85L                         |                    |        |     |     |  |
| C929    | 1-126-791-11 | ELECT                         | 10μF   | 20% | 16V   | D952         | 8-719-402-16 | DIODE 02CZ10-TE85L                         |                    |        |     |     |  |
| C930    | 1-126-791-11 | ELECT                         | 10μF   | 20% | 16V   | D953         | 8-719-402-16 | DIODE 02CZ10-TE85L                         |                    |        |     |     |  |
| C931    | 1-126-786-11 | ELECT                         | 47μF   | 20% | 16V   | D954         | 8-719-402-16 | DIODE 02CZ10-TE85L                         |                    |        |     |     |  |
| C932    | 1-164-004-11 | CERAMIC CHIP                  | 0.1μF  | 10% | 25V   | <IC>         |              |                                            |                    |        |     |     |  |
| C933    | 1-126-786-11 | ELECT                         | 47μF   | 20% | 16V   | IC903        | 8-759-446-66 | IC MM1113XFBE                              |                    |        |     |     |  |
| C934    | 1-164-004-11 | CERAMIC CHIP                  | 0.1μF  | 10% | 25V   | IC904        | 8-759-446-66 | IC MM1113XFBE                              |                    |        |     |     |  |
| C935    | 1-126-786-11 | ELECT                         | 47μF   | 20% | 16V   | IC905        | 8-759-360-07 | IC BA7657F-E2                              |                    |        |     |     |  |
| C936    | 1-164-004-11 | CERAMIC CHIP                  | 0.1μF  | 10% | 25V   | IC906        | 8-759-011-64 | IC MC74HC4052F-T2                          |                    |        |     |     |  |
| C937    | 1-126-320-11 | ELECT                         | 10μF   | 20% | 16V   | <JACK>       |              |                                            |                    |        |     |     |  |
| C938    | 1-124-290-00 | ELECT                         | 47μF   | 20% | 10V   | J901         | 1-694-453-12 | TERMINAL BOARD ASSY, I/O (RGB/LINE IN/OUT) |                    |        |     |     |  |
| C939    | 1-126-791-11 | ELECT                         | 10μF   | 20% | 16V   | J903         | 1-569-578-11 | TERMINAL, S (WITH SW) (LINE Y/C OUT)       |                    |        |     |     |  |
| C940    | 1-126-791-11 | ELECT                         | 10μF   | 20% | 16V   | J905         | 1-694-452-12 | TERMINAL BOARD ASSY, I/O (REMOTE)          |                    |        |     |     |  |
| C941    | 1-164-004-11 | CERAMIC CHIP                  | 0.1μF  | 10% | 25V   | <TRANSISTOR> |              |                                            |                    |        |     |     |  |
| C951    | 1-165-319-11 | CERAMIC CHIP                  | 0.1μF  | 50V |       | Q901         | 8-729-027-38 | TRANSISTOR DTA144EKA-T146                  |                    |        |     |     |  |
| C952    | 1-126-786-11 | ELECT                         | 47μF   | 20% | 16V   | Q902         | 8-729-027-38 | TRANSISTOR DTA144EKA-T146                  |                    |        |     |     |  |
| C953    | 1-165-319-11 | CERAMIC CHIP                  | 0.1μF  | 50V |       | Q903         | 8-729-027-38 | TRANSISTOR DTA144EKA-T146                  |                    |        |     |     |  |
| C971    | 1-164-004-11 | CERAMIC CHIP                  | 0.1μF  | 10% | 25V   | Q904         | 1-801-806-11 | TRANSISTOR DTC144EKA-T146                  |                    |        |     |     |  |
|         |              |                               |        |     |       | Q905         | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR               |                    |        |     |     |  |
| C972    | 1-164-004-11 | CERAMIC CHIP                  | 0.1μF  | 10% | 25V   | Q906         | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR               |                    |        |     |     |  |
| C973    | 1-164-004-11 | CERAMIC CHIP                  | 0.1μF  | 10% | 25V   |              |              |                                            |                    |        |     |     |  |



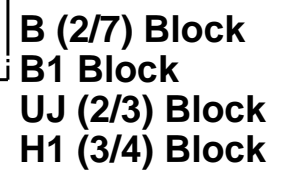
| Ref.No.      | Part No.                                                                                                  | Description | Remark |       |       | Ref.No.      | Part No.                   | Description | Remark |
|--------------|-----------------------------------------------------------------------------------------------------------|-------------|--------|-------|-------|--------------|----------------------------|-------------|--------|
| <RESISTOR>   |                                                                                                           |             |        |       |       | 9-900-029-01 | BATTERY COVER (FOR RM-921) |             |        |
| R901         | 1-216-295-91                                                                                              | SHORT       | 0      |       |       |              |                            |             |        |
| R902         | 1-216-295-91                                                                                              | SHORT       | 0      |       |       |              |                            |             |        |
| R903         | 1-216-025-91                                                                                              | RES-CHIP    | 100    | 5%    | 1/10W |              |                            |             |        |
| R905         | 1-215-394-00                                                                                              | METAL       | 75     | 1%    | 1/4W  |              |                            |             |        |
| R906         | 1-216-624-11                                                                                              | METAL CHIP  | 75     | 0.50% | 1/10W |              |                            |             |        |
| R907         | 1-216-089-91                                                                                              | RES-CHIP    | 47K    | 5%    | 1/10W |              |                            |             |        |
| R909         | 1-216-089-91                                                                                              | RES-CHIP    | 47K    | 5%    | 1/10W |              |                            |             |        |
| R915         | 1-216-624-11                                                                                              | METAL CHIP  | 75     | 0.50% | 1/10W |              |                            |             |        |
| R916         | 1-216-624-11                                                                                              | METAL CHIP  | 75     | 0.50% | 1/10W |              |                            |             |        |
| R917         | 1-216-624-11                                                                                              | METAL CHIP  | 75     | 0.50% | 1/10W |              |                            |             |        |
| R918         | 1-216-057-00                                                                                              | RES-CHIP    | 2.2K   | 5%    | 1/10W |              |                            |             |        |
| R919         | 1-216-033-00                                                                                              | RES-CHIP    | 220    | 5%    | 1/10W |              |                            |             |        |
| R921         | 1-216-057-00                                                                                              | RES-CHIP    | 2.2K   | 5%    | 1/10W |              |                            |             |        |
| R922         | 1-216-033-00                                                                                              | RES-CHIP    | 220    | 5%    | 1/10W |              |                            |             |        |
| R924         | 1-216-089-91                                                                                              | RES-CHIP    | 47K    | 5%    | 1/10W |              |                            |             |        |
| R926         | 1-216-089-91                                                                                              | RES-CHIP    | 47K    | 5%    | 1/10W |              |                            |             |        |
| R928         | 1-216-624-11                                                                                              | METAL CHIP  | 75     | 0.50% | 1/10W |              |                            |             |        |
| R929         | 1-216-624-11                                                                                              | METAL CHIP  | 75     | 0.50% | 1/10W |              |                            |             |        |
| R930         | 1-216-624-11                                                                                              | METAL CHIP  | 75     | 0.50% | 1/10W |              |                            |             |        |
| R931         | 1-216-057-00                                                                                              | RES-CHIP    | 2.2K   | 5%    | 1/10W |              |                            |             |        |
| R932         | 1-216-033-00                                                                                              | RES-CHIP    | 220    | 5%    | 1/10W |              |                            |             |        |
| R934         | 1-216-057-00                                                                                              | RES-CHIP    | 2.2K   | 5%    | 1/10W |              |                            |             |        |
| R935         | 1-216-033-00                                                                                              | RES-CHIP    | 220    | 5%    | 1/10W |              |                            |             |        |
| R937         | 1-216-089-91                                                                                              | RES-CHIP    | 47K    | 5%    | 1/10W |              |                            |             |        |
| R939         | 1-216-089-91                                                                                              | RES-CHIP    | 47K    | 5%    | 1/10W |              |                            |             |        |
| R941         | 1-216-081-00                                                                                              | RES-CHIP    | 22K    | 5%    | 1/10W |              |                            |             |        |
| R942         | 1-216-081-00                                                                                              | RES-CHIP    | 22K    | 5%    | 1/10W |              |                            |             |        |
| R943         | 1-216-121-91                                                                                              | RES-CHIP    | 1M     | 5%    | 1/10W |              |                            |             |        |
| R944         | 1-216-121-91                                                                                              | RES-CHIP    | 1M     | 5%    | 1/10W |              |                            |             |        |
| R945         | 1-216-121-91                                                                                              | RES-CHIP    | 1M     | 5%    | 1/10W |              |                            |             |        |
| R946         | 1-216-295-91                                                                                              | SHORT       | 0      |       |       |              |                            |             |        |
| R947         | 1-216-295-91                                                                                              | SHORT       | 0      |       |       |              |                            |             |        |
| R948         | 1-216-295-91                                                                                              | SHORT       | 0      |       |       |              |                            |             |        |
| R949         | 1-216-073-00                                                                                              | RES-CHIP    | 10K    | 5%    | 1/10W |              |                            |             |        |
| R950         | 1-216-073-00                                                                                              | RES-CHIP    | 10K    | 5%    | 1/10W |              |                            |             |        |
| R951         | 1-216-073-00                                                                                              | RES-CHIP    | 10K    | 5%    | 1/10W |              |                            |             |        |
| R952         | 1-216-073-00                                                                                              | RES-CHIP    | 10K    | 5%    | 1/10W |              |                            |             |        |
| R971         | 1-216-073-00                                                                                              | RES-CHIP    | 10K    | 5%    | 1/10W |              |                            |             |        |
| R985         | 1-216-025-91                                                                                              | RES-CHIP    | 100    | 5%    | 1/10W |              |                            |             |        |
| R986         | 1-216-025-91                                                                                              | RES-CHIP    | 100    | 5%    | 1/10W |              |                            |             |        |
| R987         | 1-216-295-91                                                                                              | SHORT       | 0      |       |       |              |                            |             |        |
| R988         | 1-216-295-91                                                                                              | SHORT       | 0      |       |       |              |                            |             |        |
| R990         | 1-216-295-91                                                                                              | SHORT       | 0      |       |       |              |                            |             |        |
| R991         | 1-215-394-00                                                                                              | METAL       | 75     | 1%    | 1/4W  |              |                            |             |        |
| R995         | 1-216-025-91                                                                                              | RES-CHIP    | 100    | 5%    | 1/10W |              |                            |             |        |
| R996         | 1-216-025-91                                                                                              | RES-CHIP    | 100    | 5%    | 1/10W |              |                            |             |        |
| *****        |                                                                                                           |             |        |       |       |              |                            |             |        |
| ACCESSORIES  |                                                                                                           |             |        |       |       |              |                            |             |        |
| *****        |                                                                                                           |             |        |       |       |              |                            |             |        |
| X-4037-906-1 | CARD ASSY, WARRANTY (L)<br>(PFM-500A3W)                                                                   |             |        |       |       |              |                            |             |        |
| 1-475-089-11 | REMOTE COMMANDER (RM-921)                                                                                 |             |        |       |       |              |                            |             |        |
| 3-864-657-03 | OPERATING INSTRUCTIONS (MB-514)<br>(ENGLISH, FRENCH, GERMAN,<br>SPANISH, ITALIAN, JAPANESE)               |             |        |       |       |              |                            |             |        |
| 3-864-658-04 | INSTALLATION MANUAL FOR DEALER<br>(MB-514) (ENGLISH, JAPANESE)                                            |             |        |       |       |              |                            |             |        |
| 4-076-854-01 | OPERATING INSTRUCTIONS<br>(PFM-500A3W/510A2W)<br>(ENGLISH, FRENCH, GERMAN,<br>SPANISH, ITALIAN, JAPANESE) |             |        |       |       |              |                            |             |        |

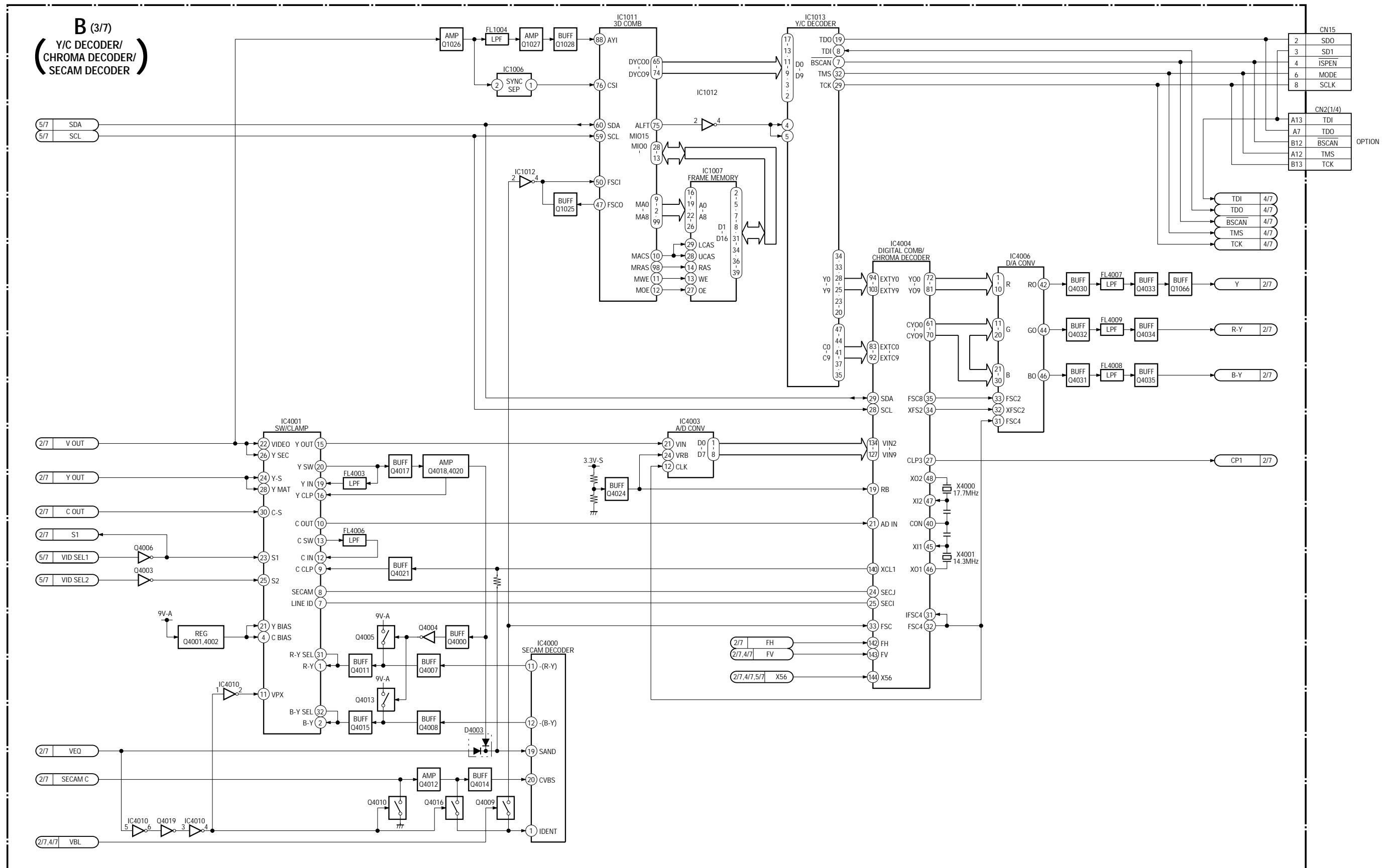


Section 8  
Block Diagrams

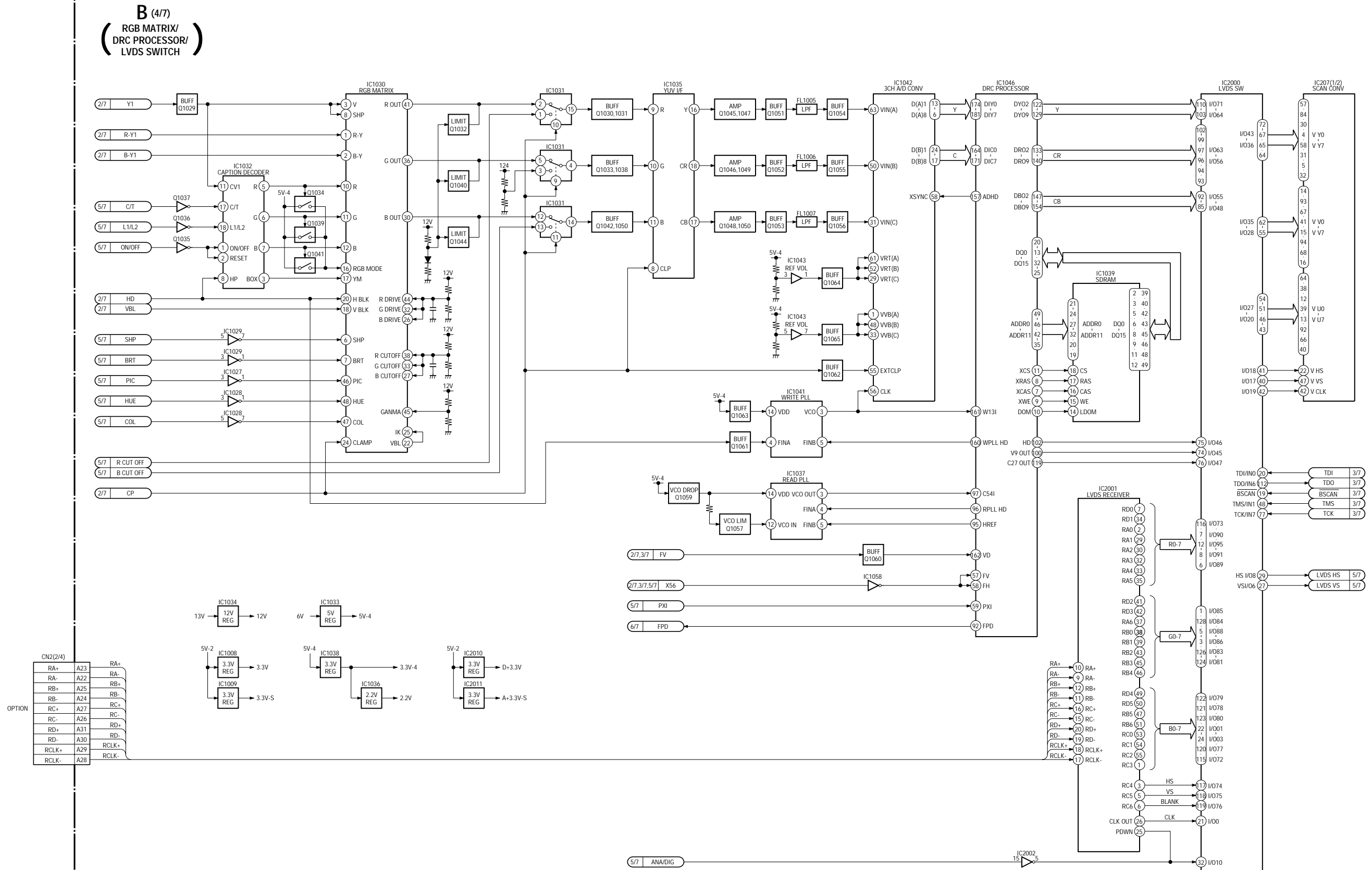


B (1/7) Block  
UA (1/2) Block  
UJ (1/3) Block  
H1 (1/4), (2/4) Block

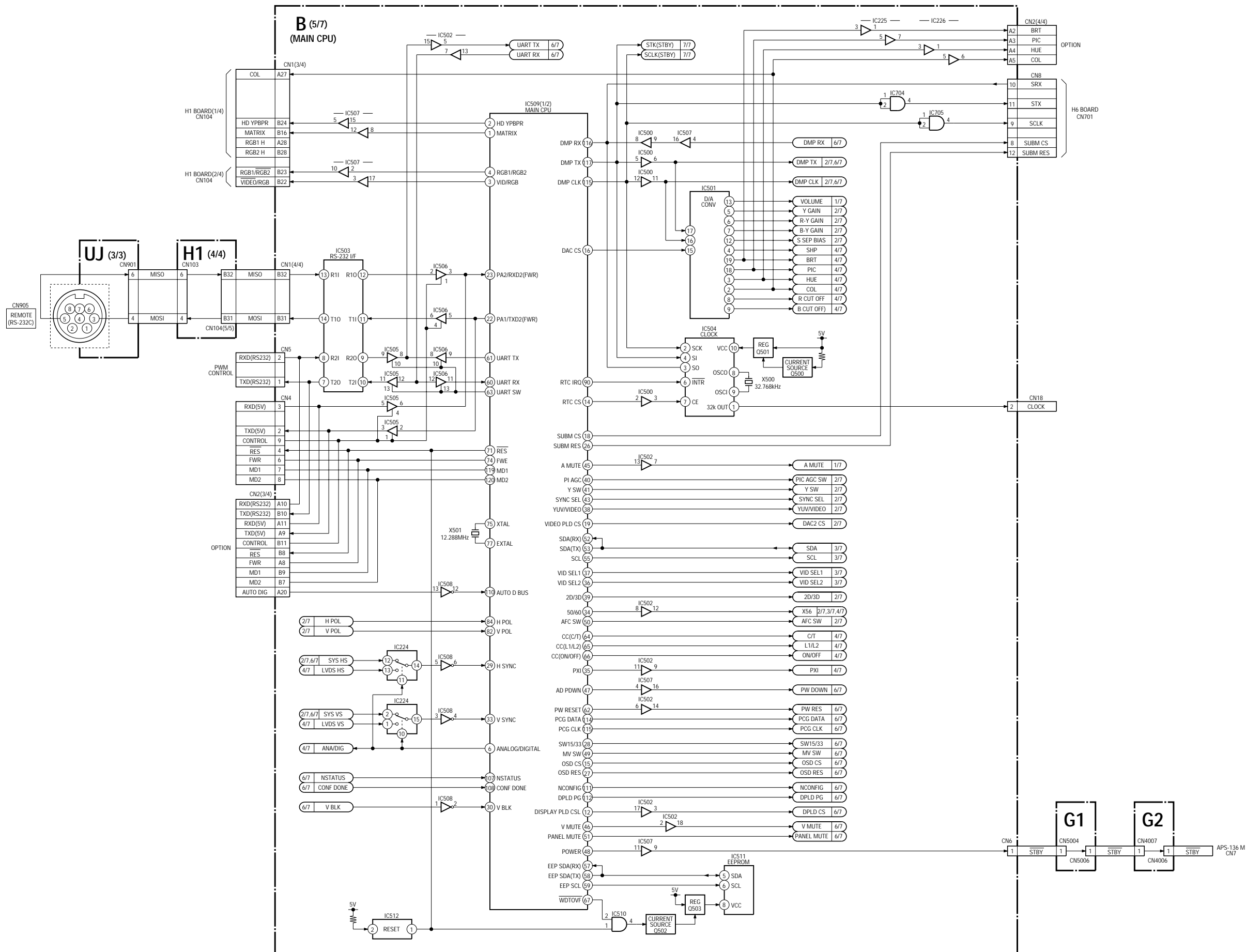




B (3/7) Block

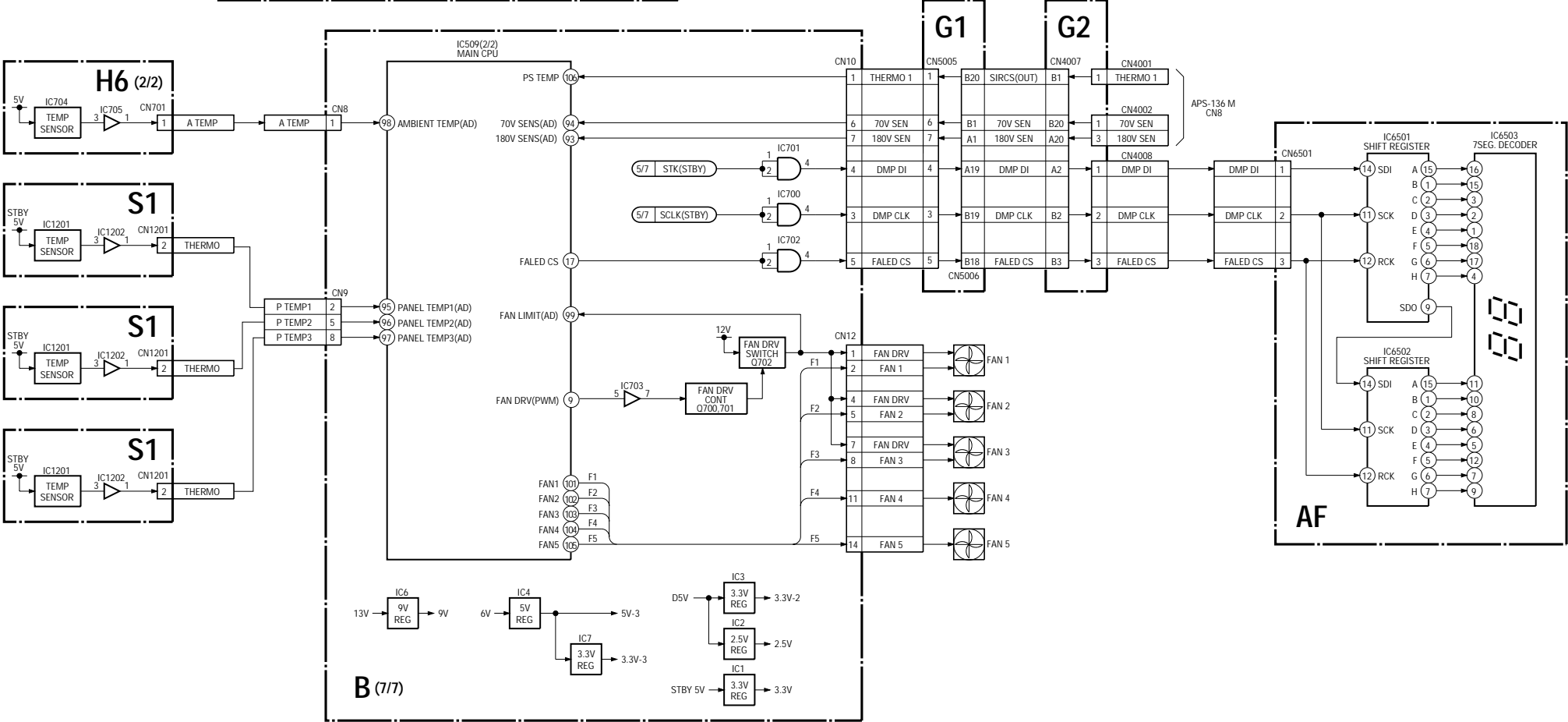
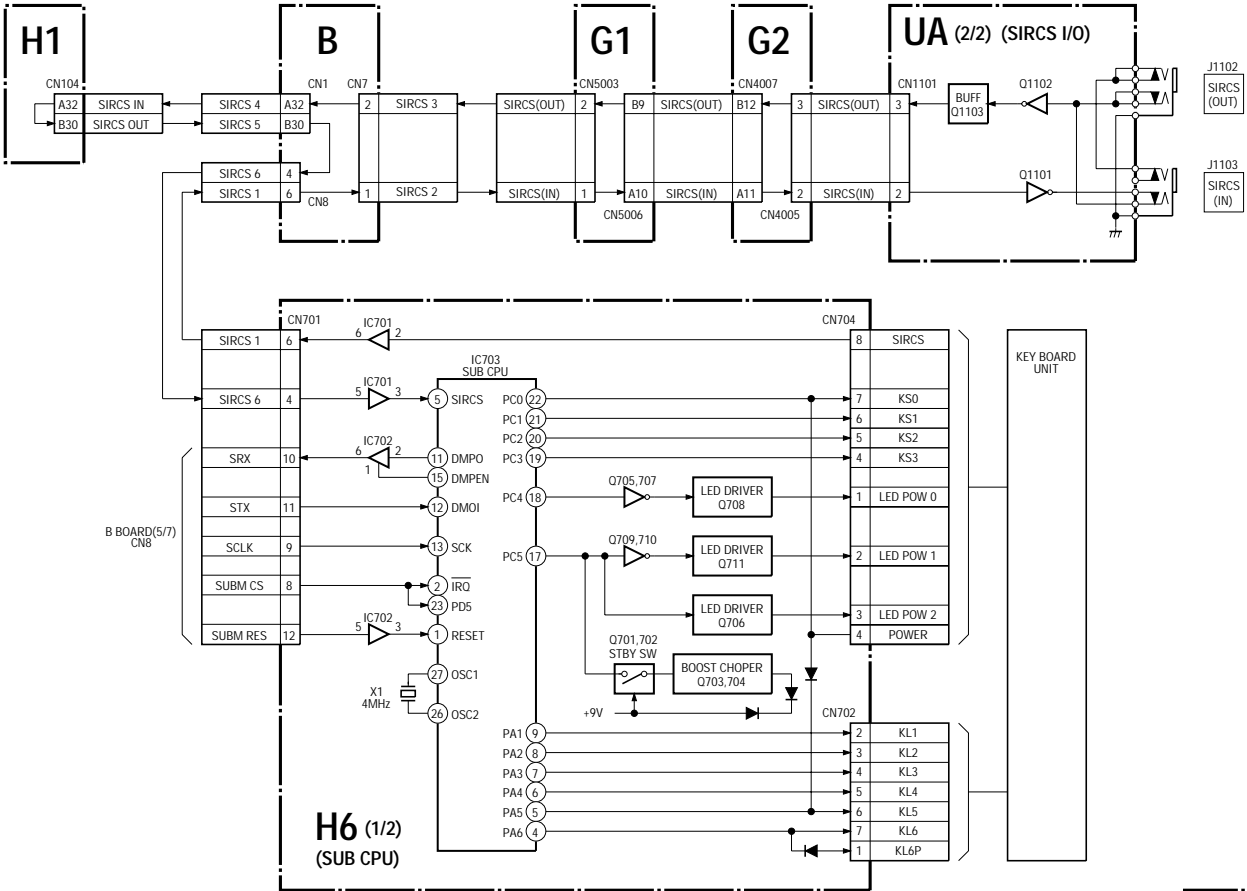


## B (4/7) Block



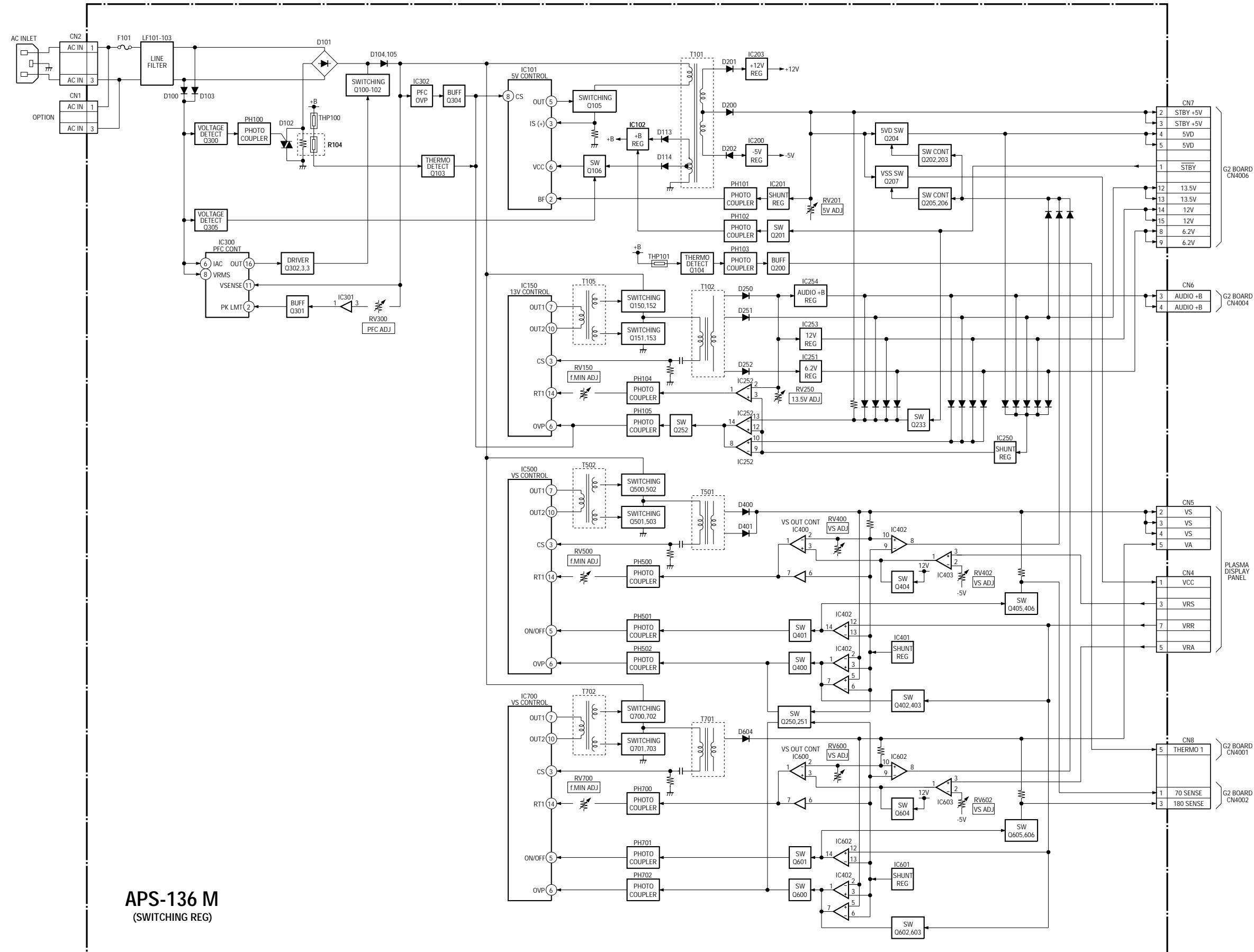
**B (5/7) Block**  
**H1 (4/4) Block**  
**UJ (3/3) Block**





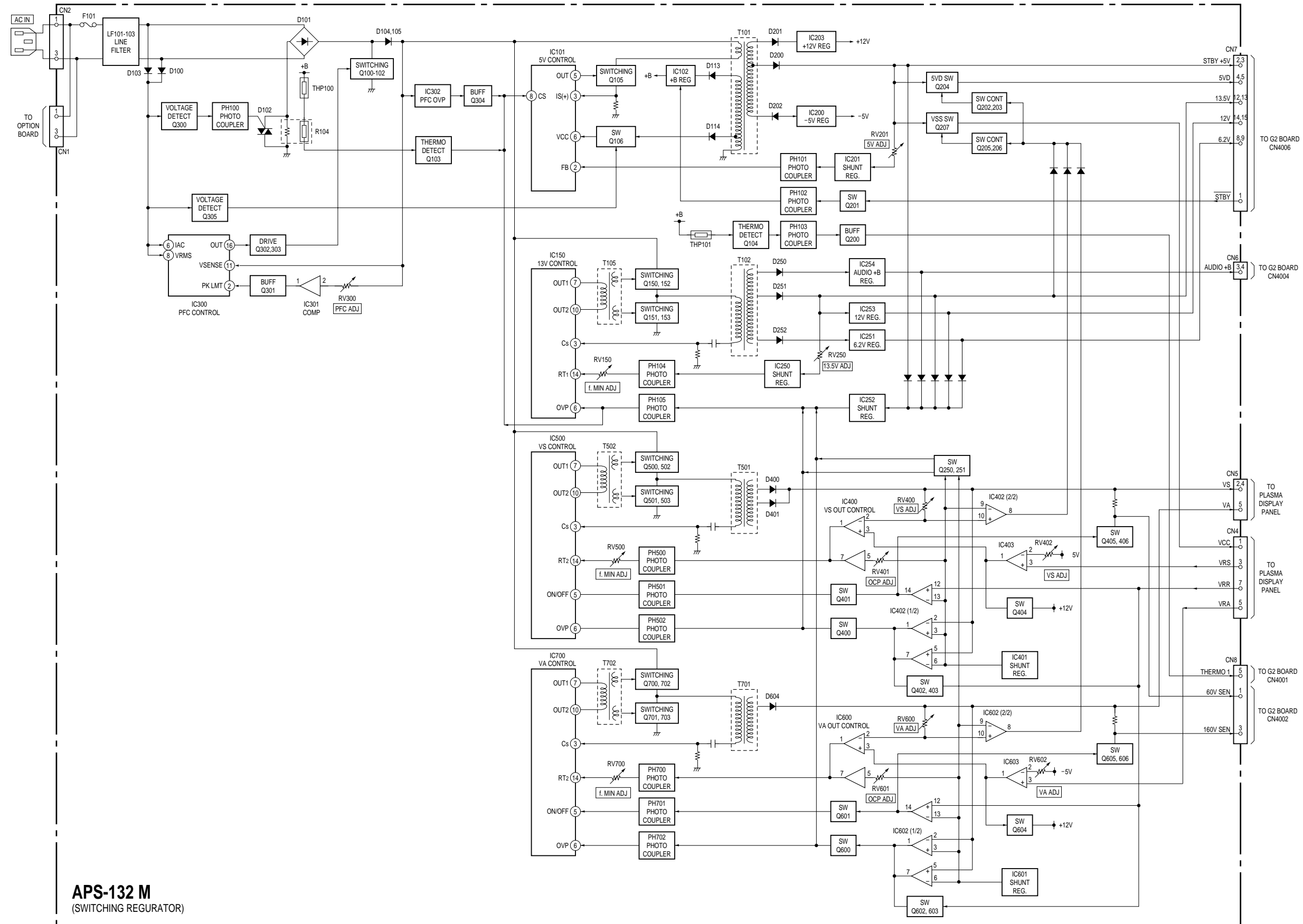
B (7/7) Block  
H6 Block  
AF Block  
UA (2/2) Block  
S1 Block

**PFM-500A3W**

**APS-136 M Block**



**PFM-510A2W**







## APS-132 M Block



Section 9  
Diagrams





Note:


- Parts marked “ \* ” differ according to the model/destination. Refer to the mount table for each function.
- The parts marked “ # ” on schematic diagrams are not mounted.
- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics.
- All electrolytics are in 50 V unless otherwise specified.
-  : fusible resistor
-  : nonflammable resistor
-  : internal component
-  : panel designation and adjustment for repair
- Caution when replacing chip parts  
New parts must be attached after removal of the chip.  
Be careful not to heat the minus side of a tantalum capacitor, because it is easily damaged by the heat.


Reference information

|           |       |                            |
|-----------|-------|----------------------------|
| RESISTOR  | RN    | : METAL FILM               |
|           | RC    | : SOLID                    |
|           | FPRD  | : NONFLAMMABLE CARBON      |
|           | FUSE  | : NONFLAMMABLE FUSIBLE     |
|           | RS    | : NONFLAMMABLE METAL OXIDE |
|           | RB    | : NONFLAMMABLE CEMENT      |
|           | RW    | : NONFLAMMABLE WIREWOUND   |
|           | ※     | : ADJUSTMENT RESISTOR      |
| COIL      | LF-8L | : MICRO INDUCTOR           |
| CAPACITOR | TA    | : TANTALUM                 |
|           | PS    | : STYROL                   |
|           | PP    | : POLYPROPYLENE            |
|           | PT    | : MYLAR                    |
|           | MPS   | : METALIZED POLYESTER      |
|           | MPP   | : METALIZED POLYPROPYLENE  |
|           | ALB   | : BIPOLAR                  |
|           | ALT   | : HIGH TEMPERATURE         |
|           | ALR   | : HIGH RIPPLE              |

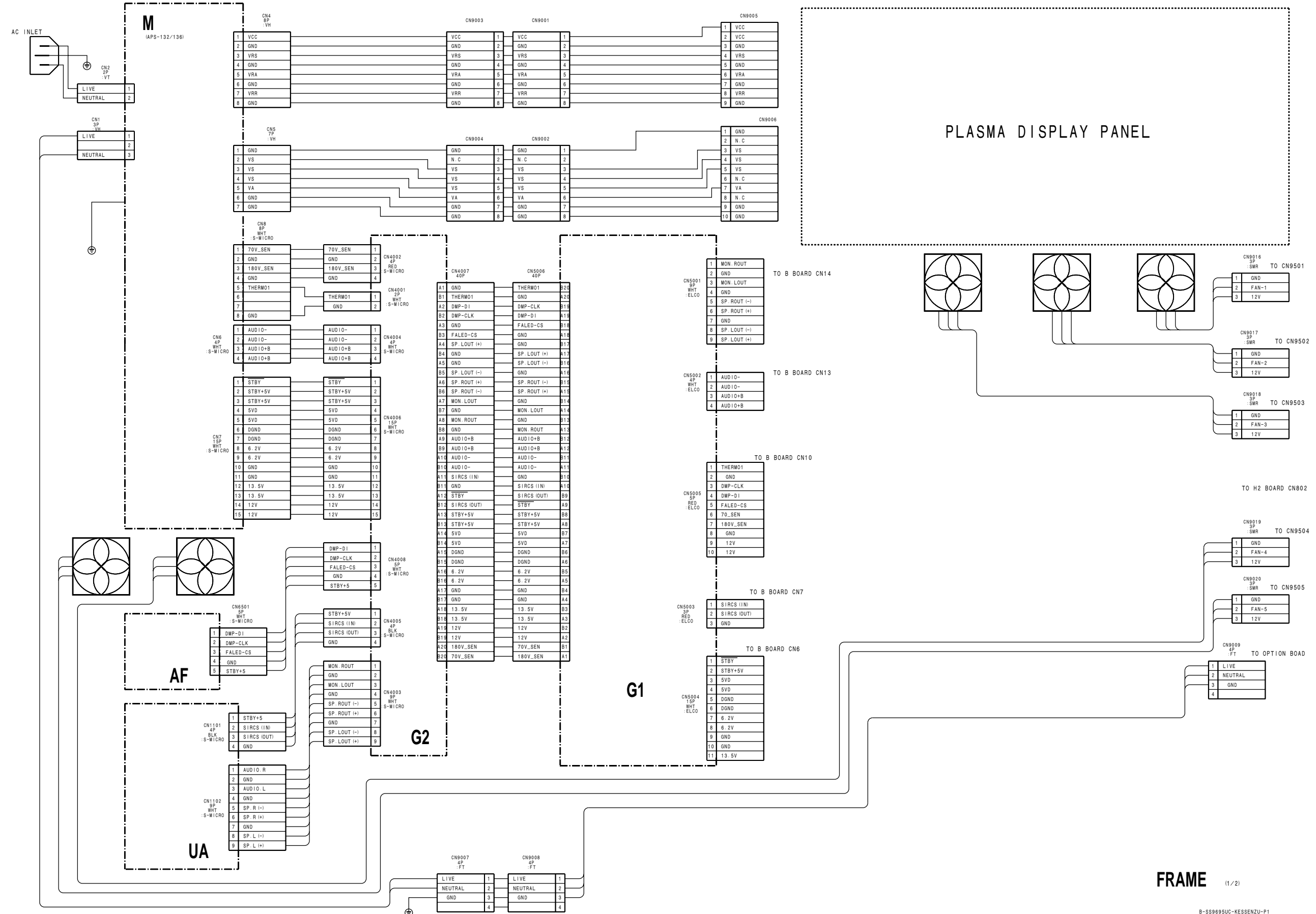
[Measuring conditions, voltage and waveform]

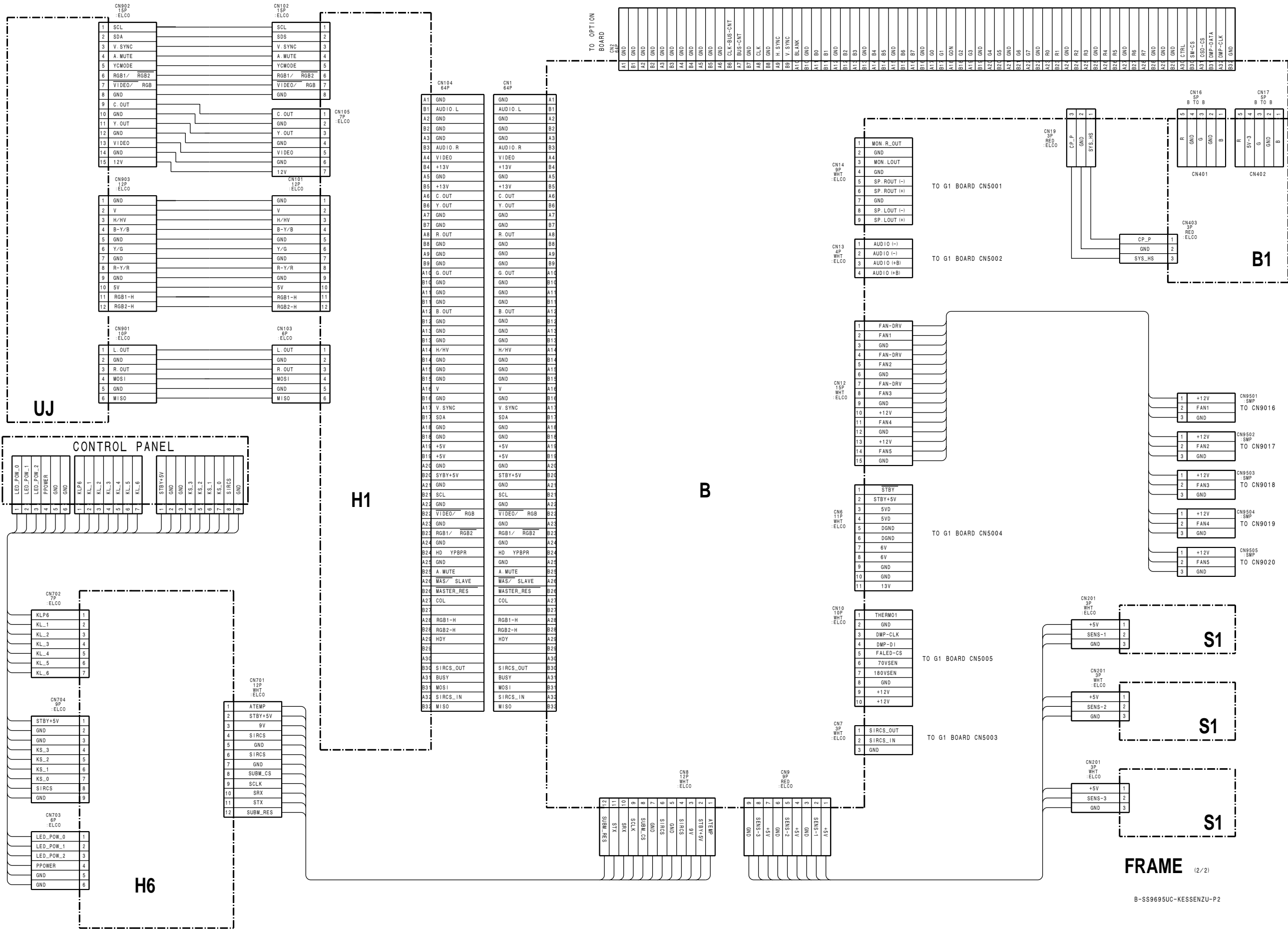
- A voltage value is the reference value between the measurement point and the earth, when the NTSC color bar signal and RGB color bar signal are received from the color bar generator (digital multi-meter used: 10 M ohms/V DC).
- Unit of voltage is V (volt).
-  : B+line
-  : B− line
- Voltage variations may occur due to normal production tolerances.
- No mark : RGB color bar signal.
-  : Measurement disabled.
- Circled numbers indicate the reference waveform.
-  : Signal path.

The components identified marked  are critical for safety.  
Replace only with the part number specified.

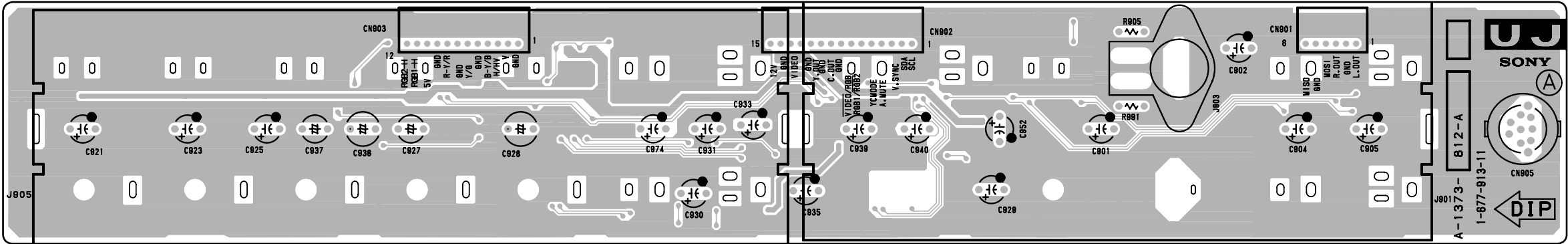
Les composants identifiés par la marque  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

## 9-1. Frame Schematic Diagrams

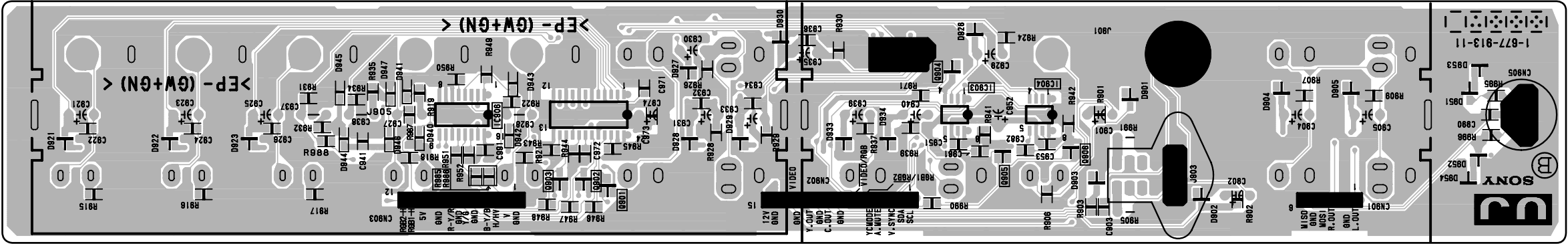




9-2. Schematic Diagrams and Printed Wiring Boards

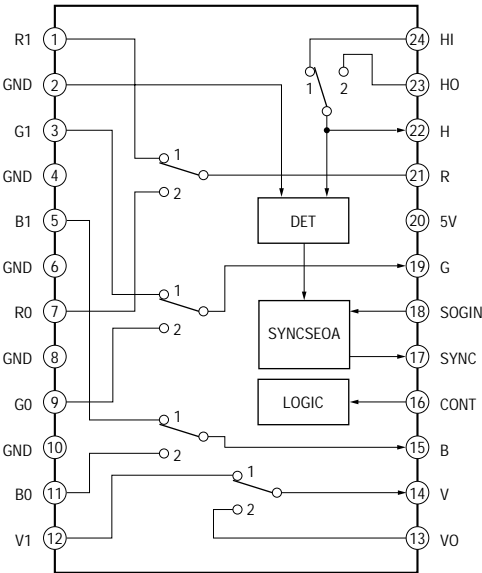


UJ -A SIDE-  
SUFFIX: -11

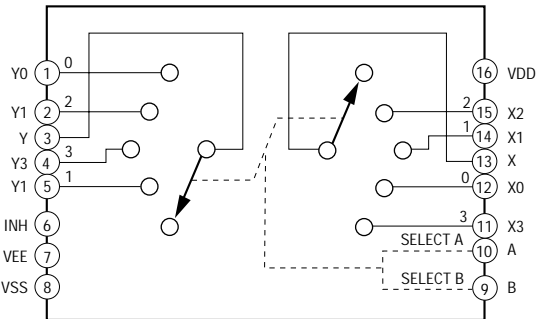


UJ -B SIDE-  
SUFFIX: -11

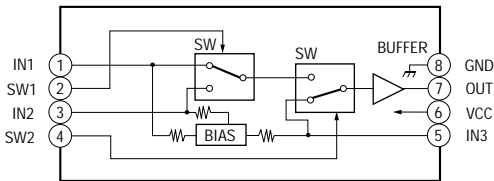
BA7657F-E2 (IC905)



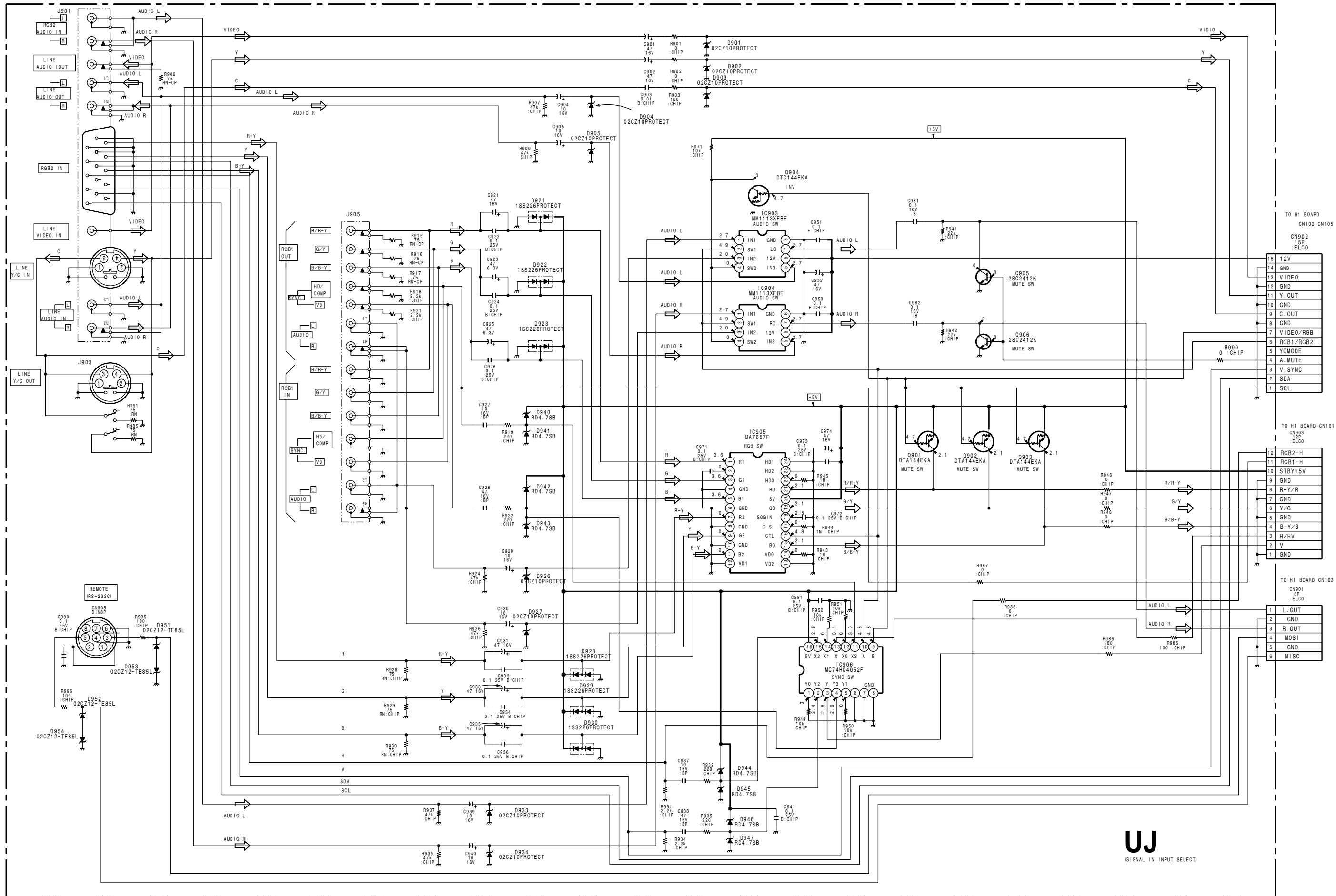
MC74HC4052F-T2 (IC906)



MM1113XFB (IC903, IC904)



UJ UJ



UJ  
(SIGNAL IN. INPUT SELECT)

9-6

**E**

PFM-500A3WE/500A3WG/500A3WU/510A2WE/510A2WG/510A2WU

**G**

**B**

D

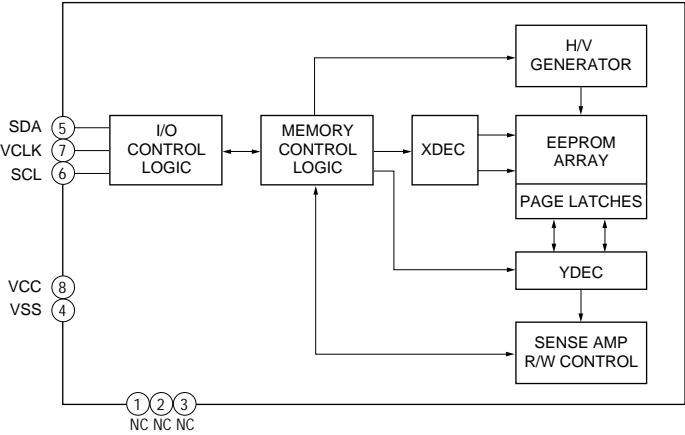
F

**G**

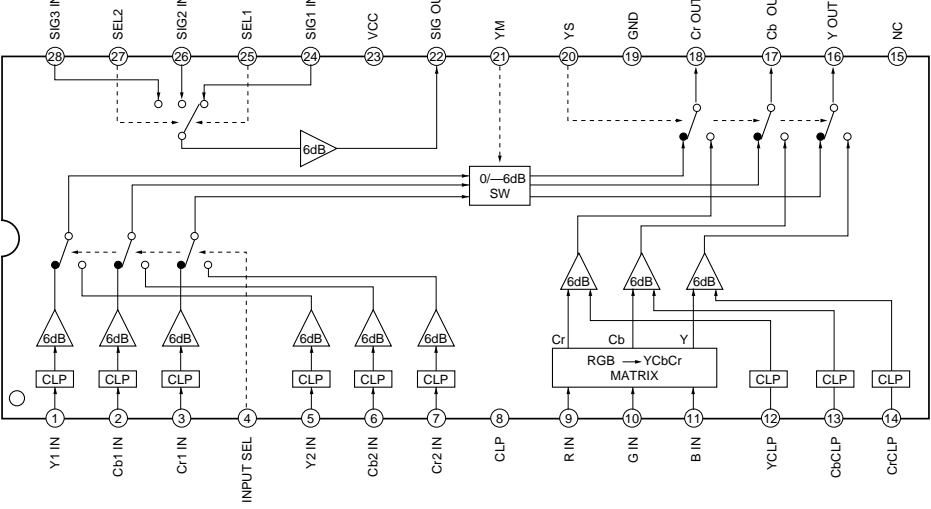
H



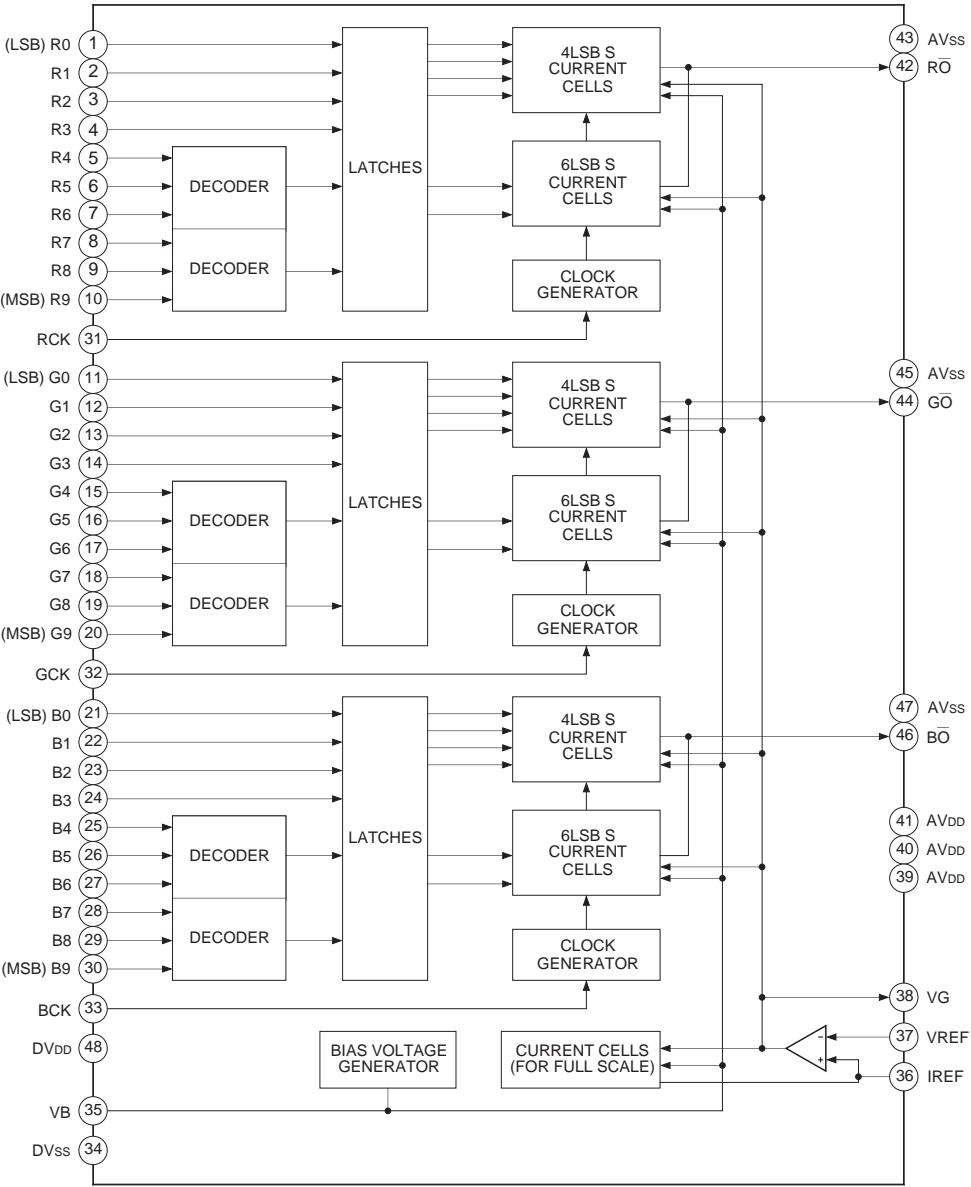
24LC21T/SN (IC103)



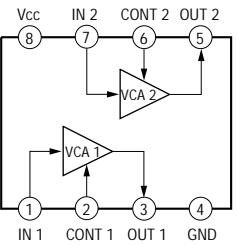
CXA2119M-T6 (IC1035)



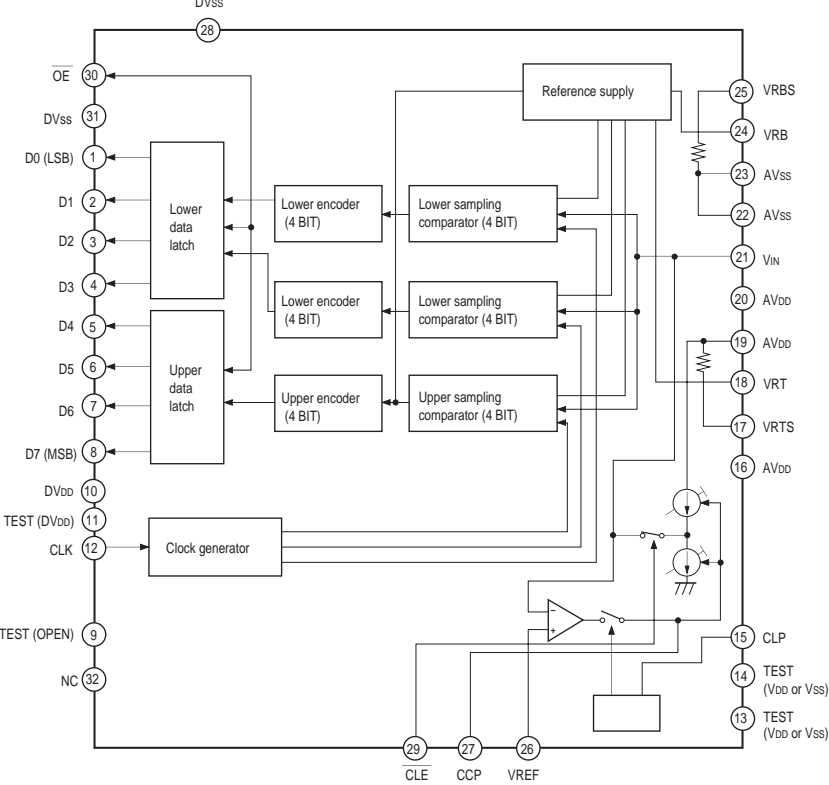
CXD2309Q-T6 (IC4006)



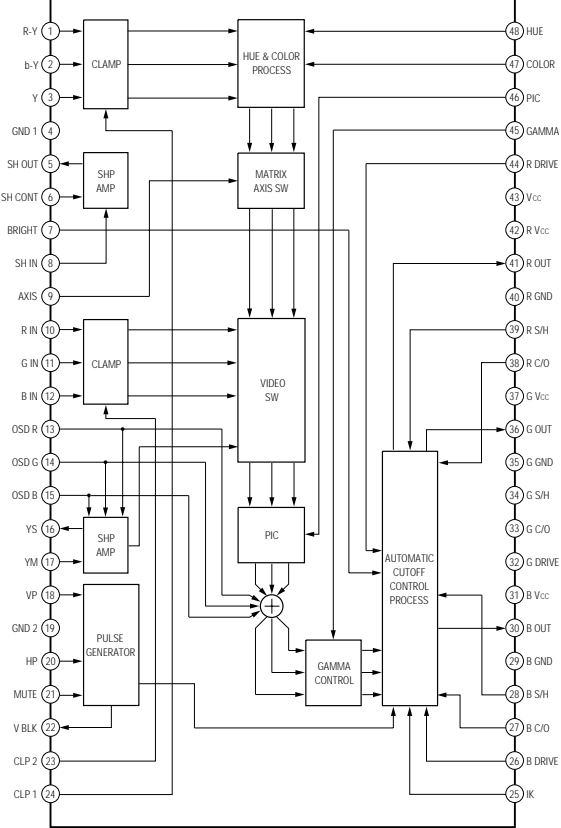
CXA1211M-T4 (IC1005, 1000, IC1001)



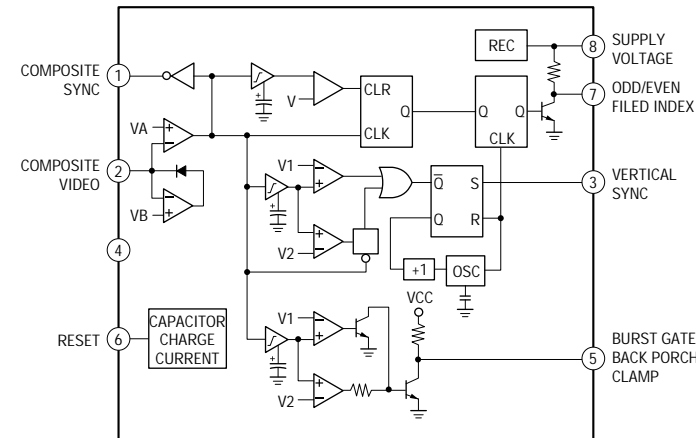
CXD2300Q-T4 (IC4003)



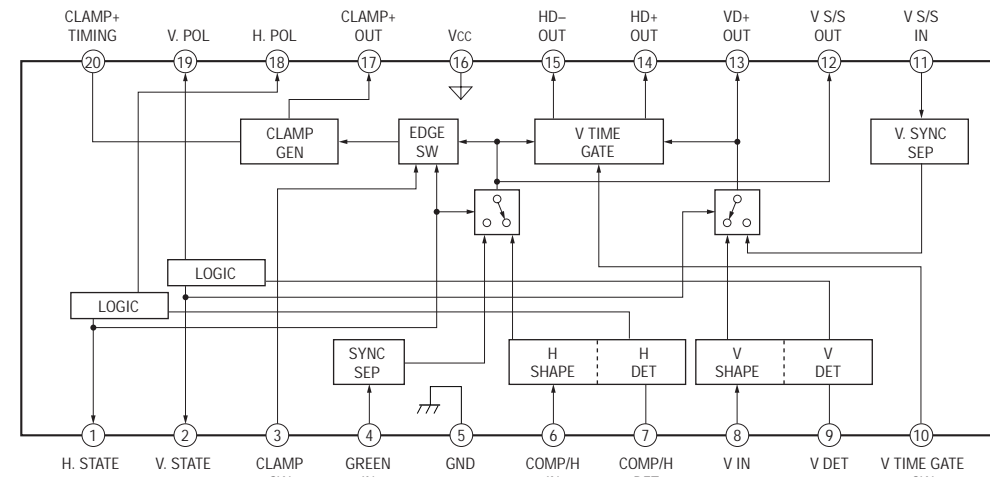
CXA1739S (IC1030)



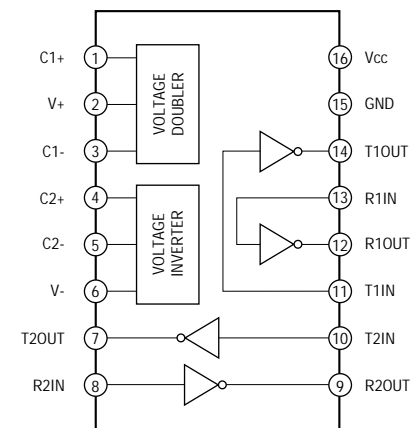
**LM1881MX (IC1006)**



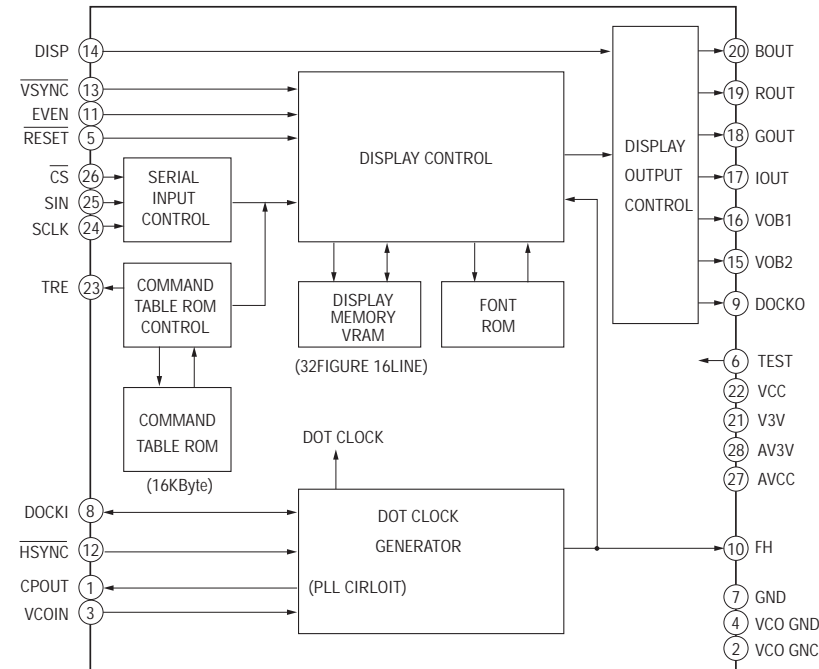
**M52347FP-TE (IC101)**



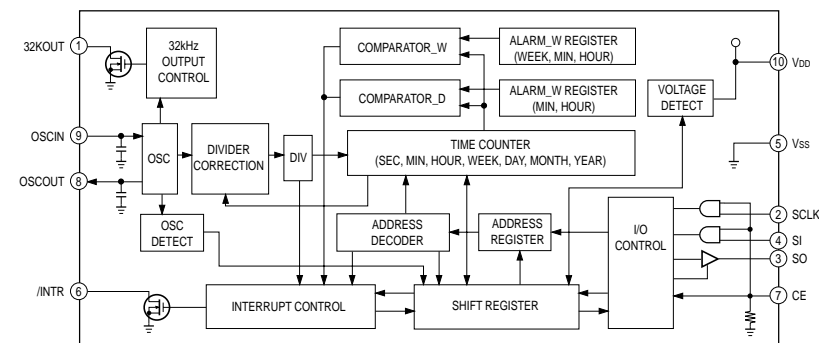
**MAX202CSE-T (IC503)**



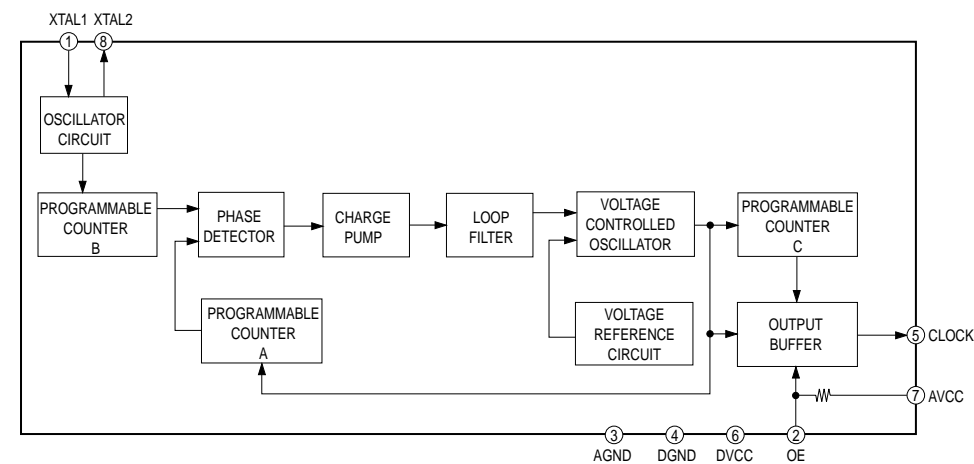
**MB90096PF-G-182-BND-ER (IC214)**



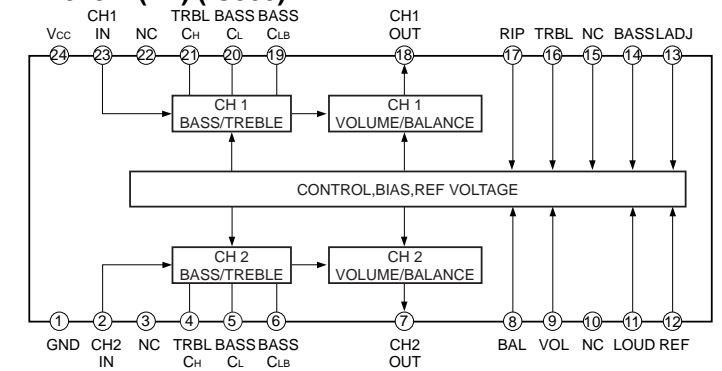
**RS5C348A-E2 (IC504)**



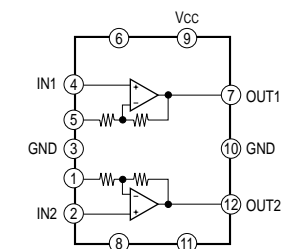
**ST49C101ACF8-05-TR (IC218)**



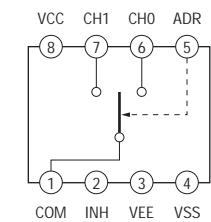
## TA8184F(EL) (IC800)



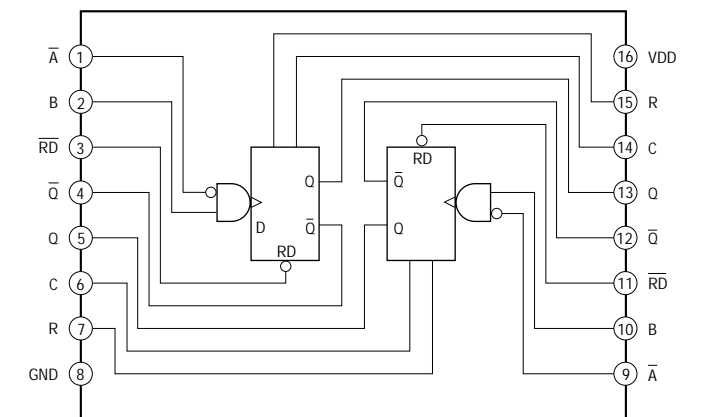
**TA8216H (IC801)**

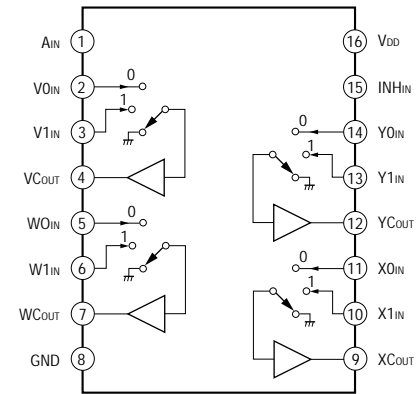
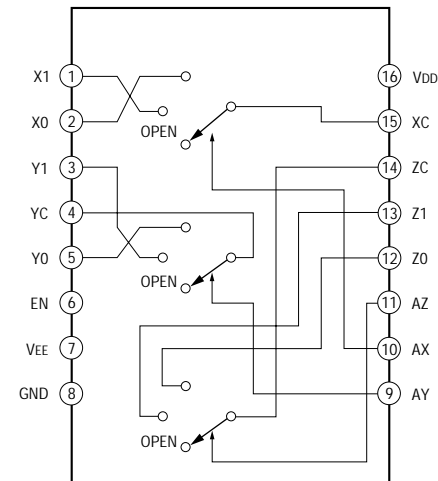
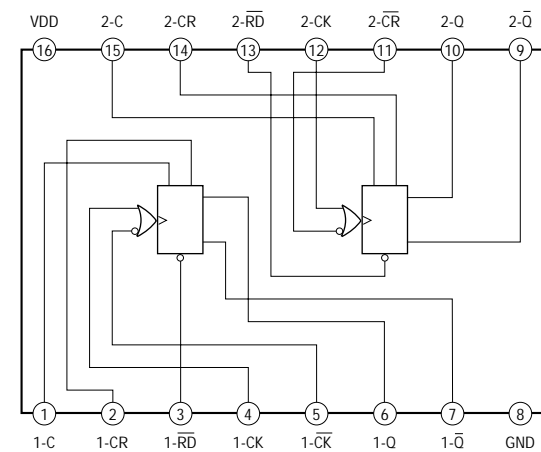
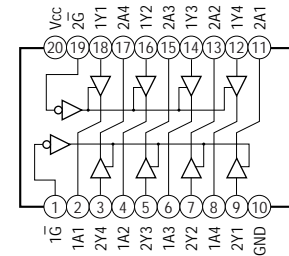
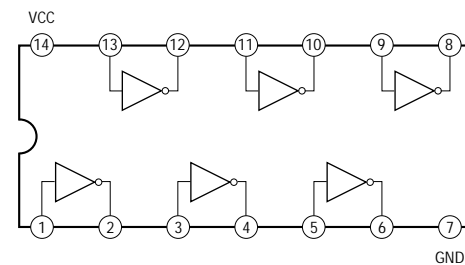
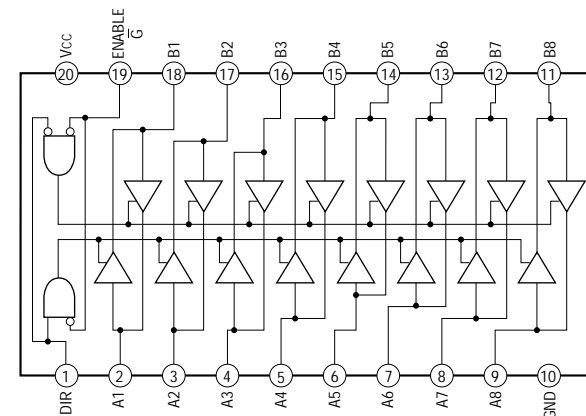
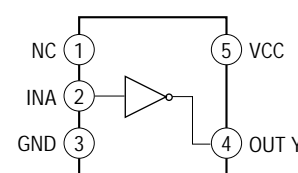
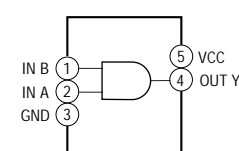
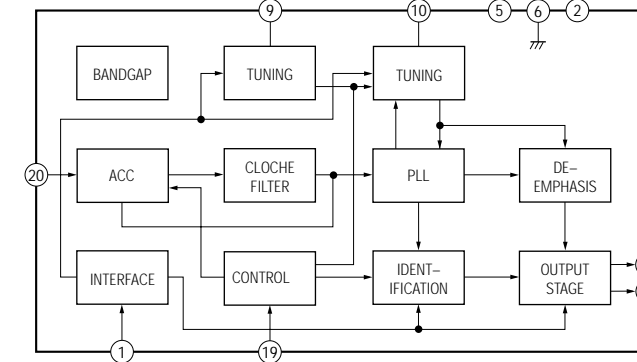
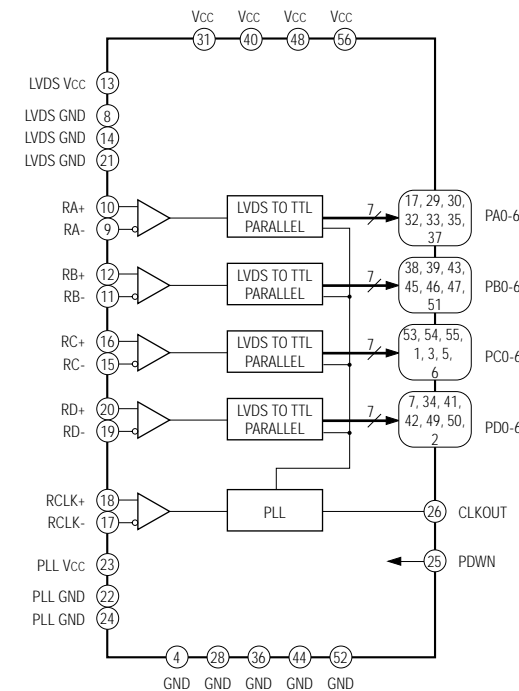
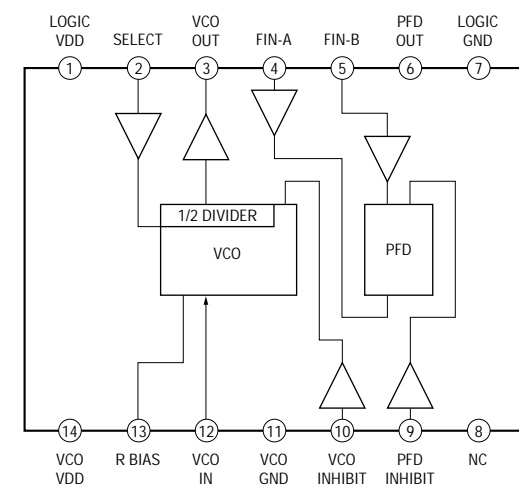
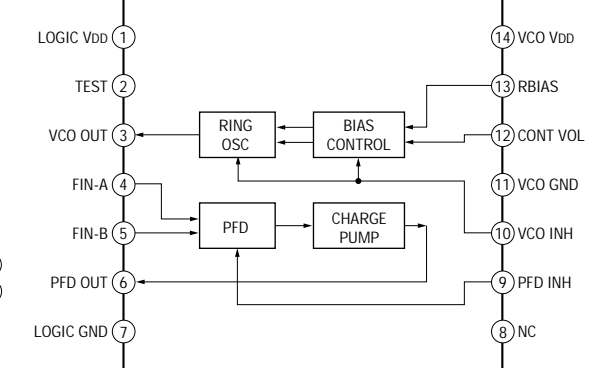
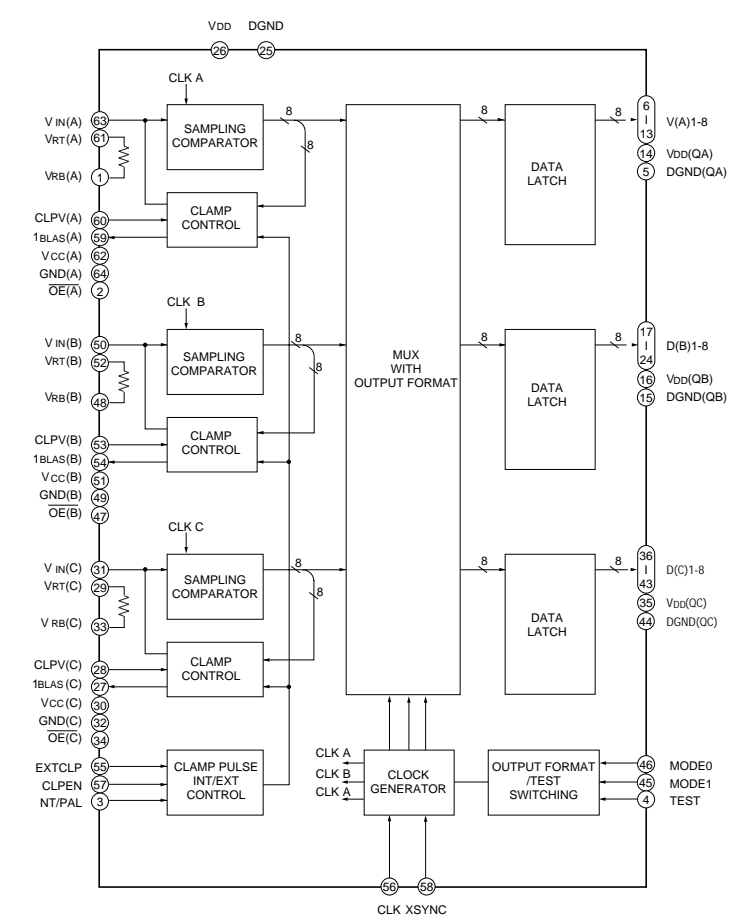


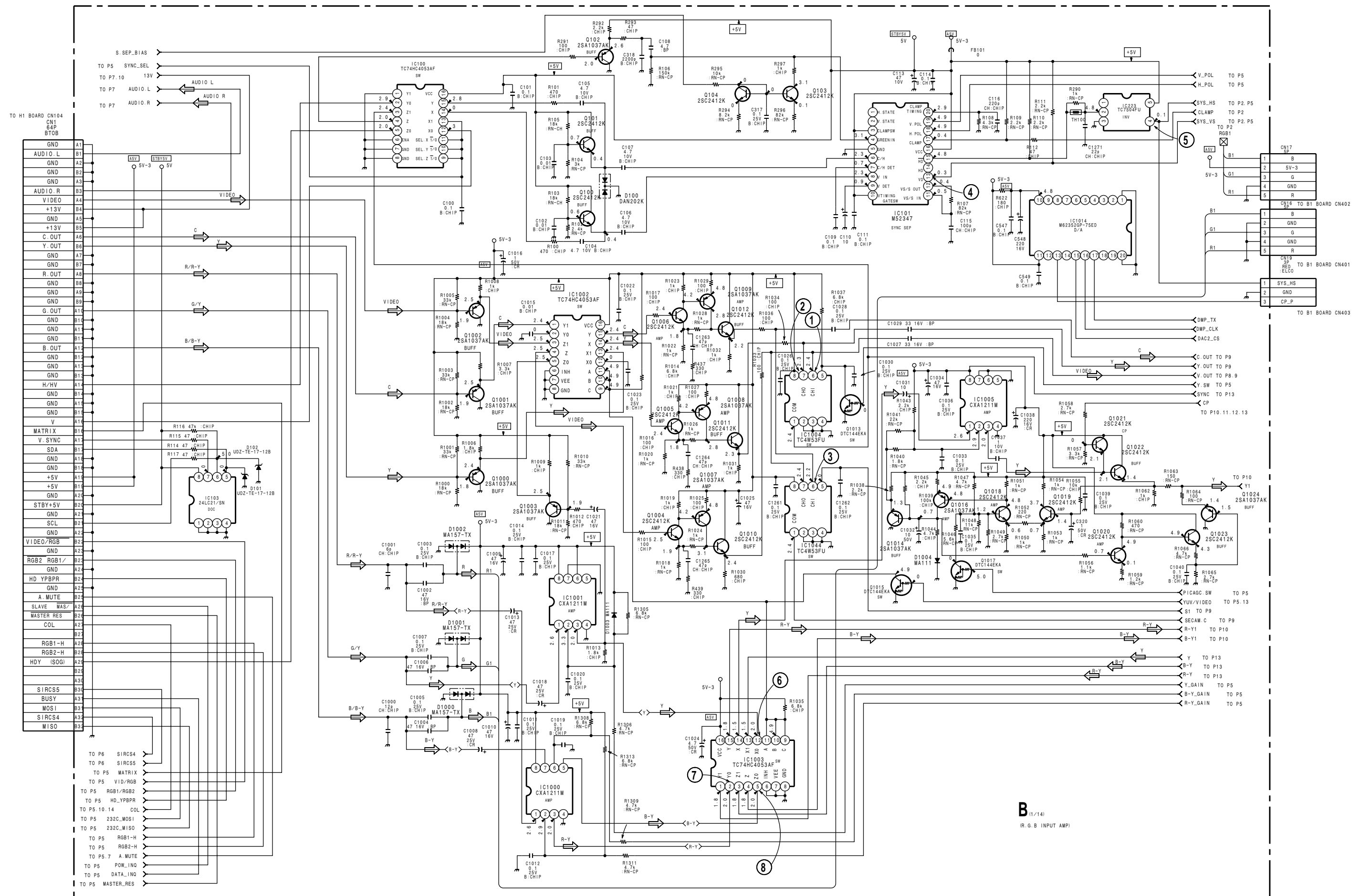
**TC4W53FU(TE12R) (IC1004, IC1044)**

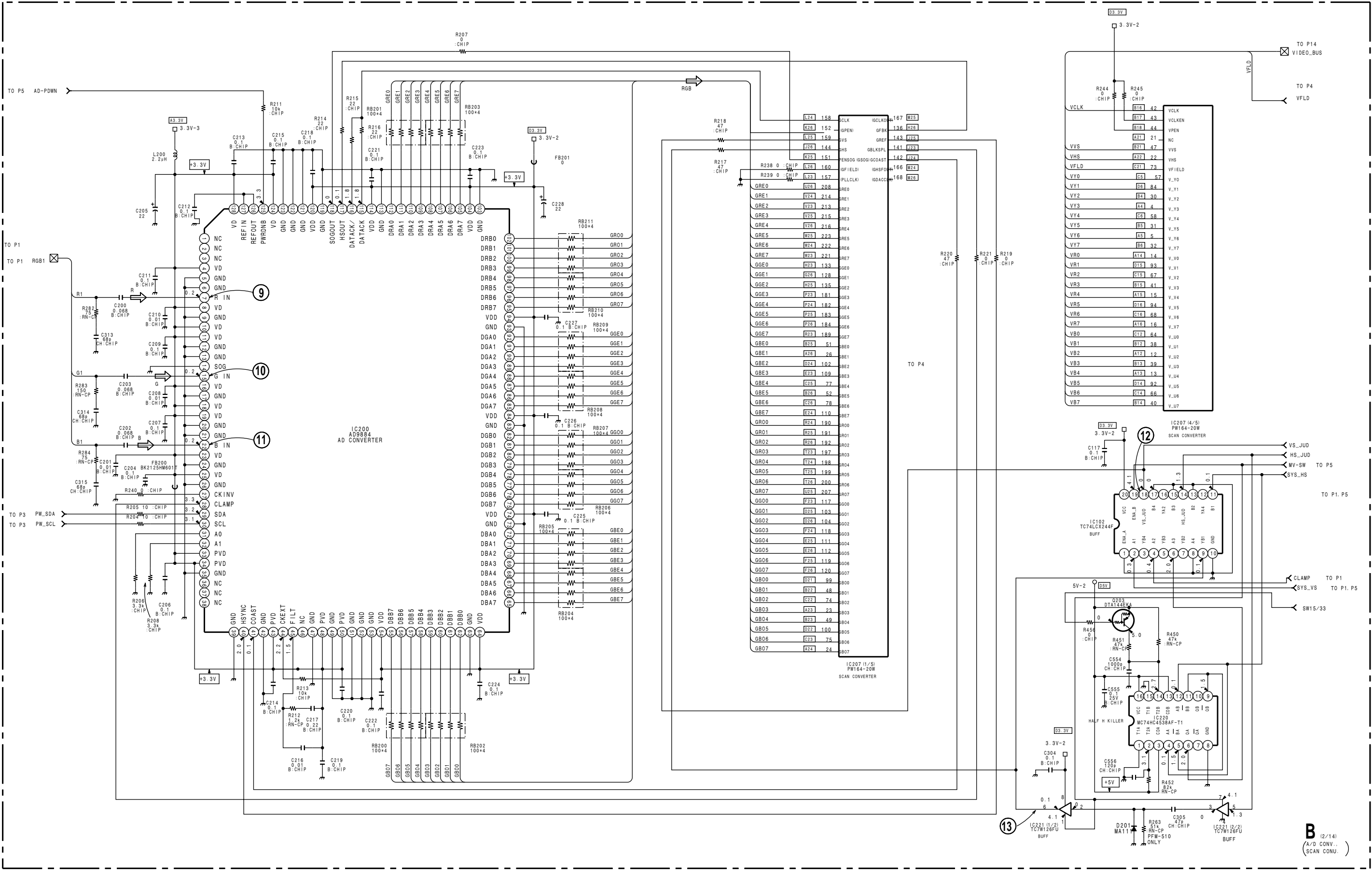


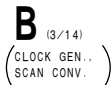
**TC74HC123AF(EL) (IC4008, IC4009, IC4011)**

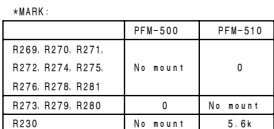


**TC74HC157AF(EL) (IC4012)****TC74HC4053AF(EL)  
(IC100, IC1002, IC1003, IC224, IC1031)****TC74HC4538AF(EL) (IC220)****TC74LCX244F(EL) (IC102)****TC74VHCT04AF(EL) (IC222)****TC74VHCT245AFT(EL)  
(IC210, IC211, IC212, IC213, IC215)****TC7S04FU(TE85R) (IC223)****TC7S08FU(TE85R) (IC219)****TDA8395T/N3 (IC4000)****THC63LVDF84A-T (IC2001)****TLC2932IPW-E20 (IC1041)****TLC2933IPWR (IC1037)****TLC5733AIPM (IC1042)**





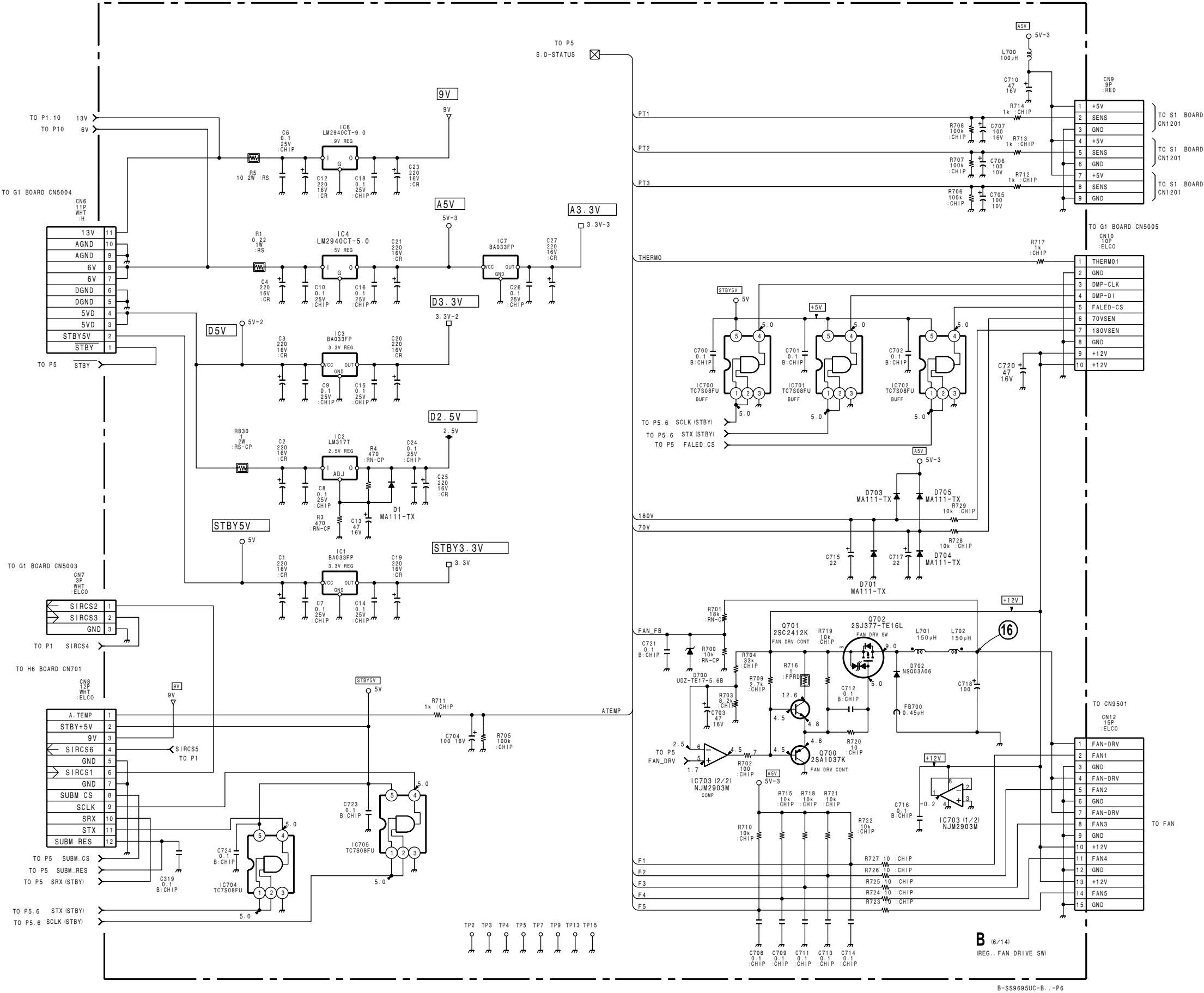


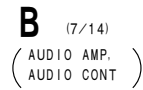




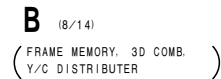


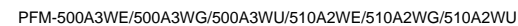


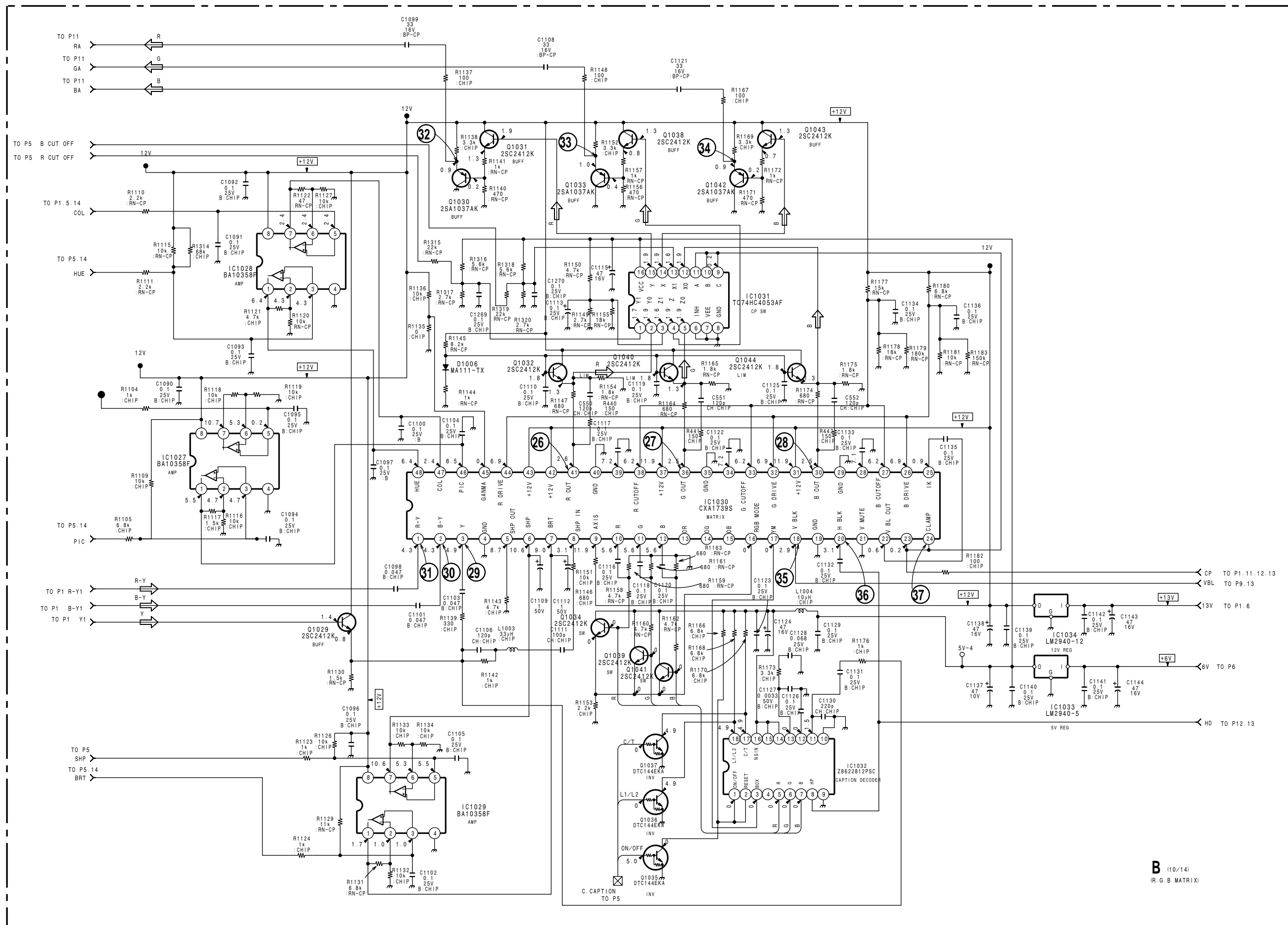


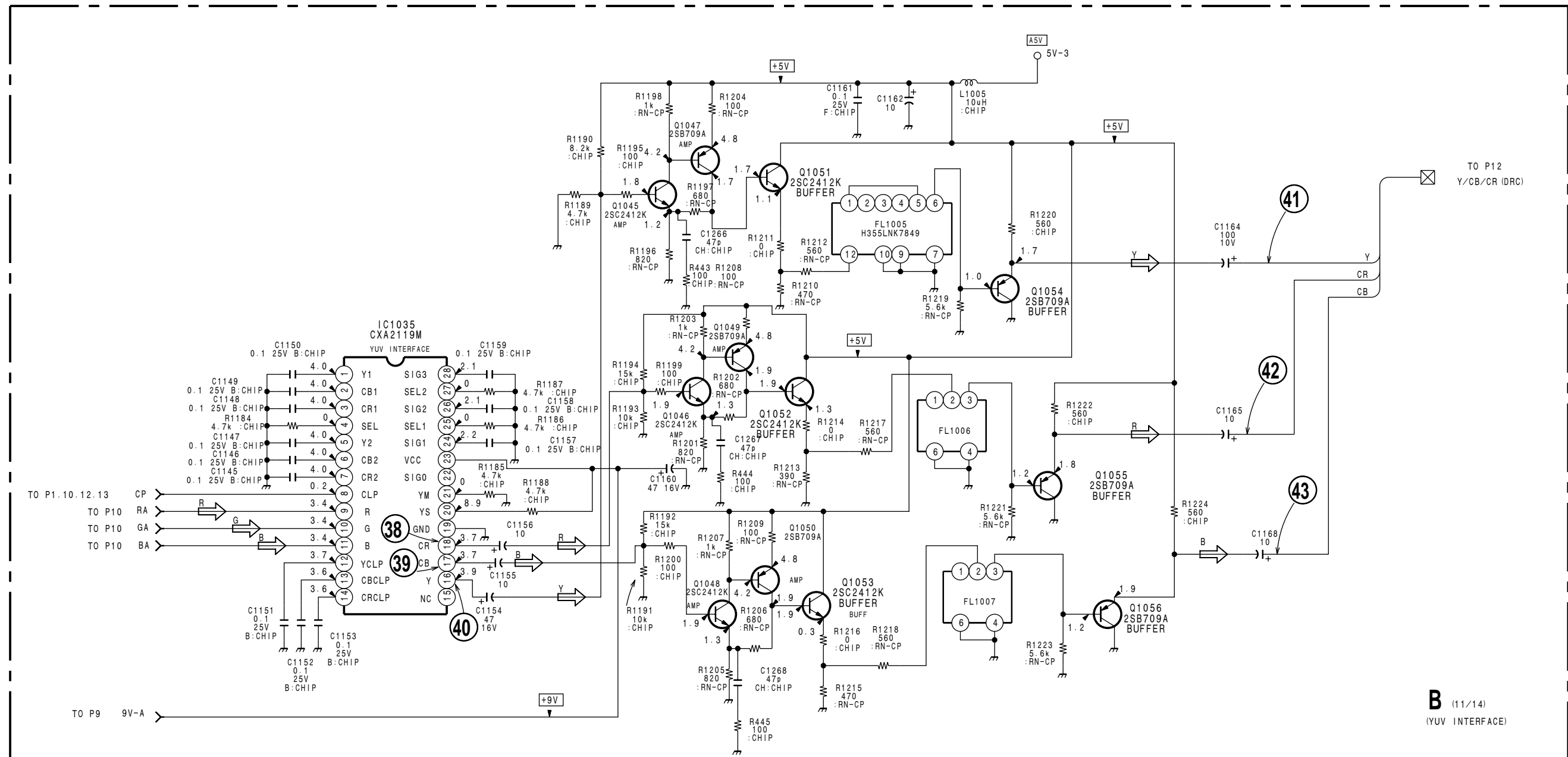


B-SS9695UC-B..-P7



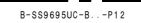


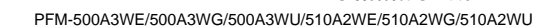




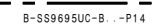
B (11/14)  
(YUV INTERFACE)

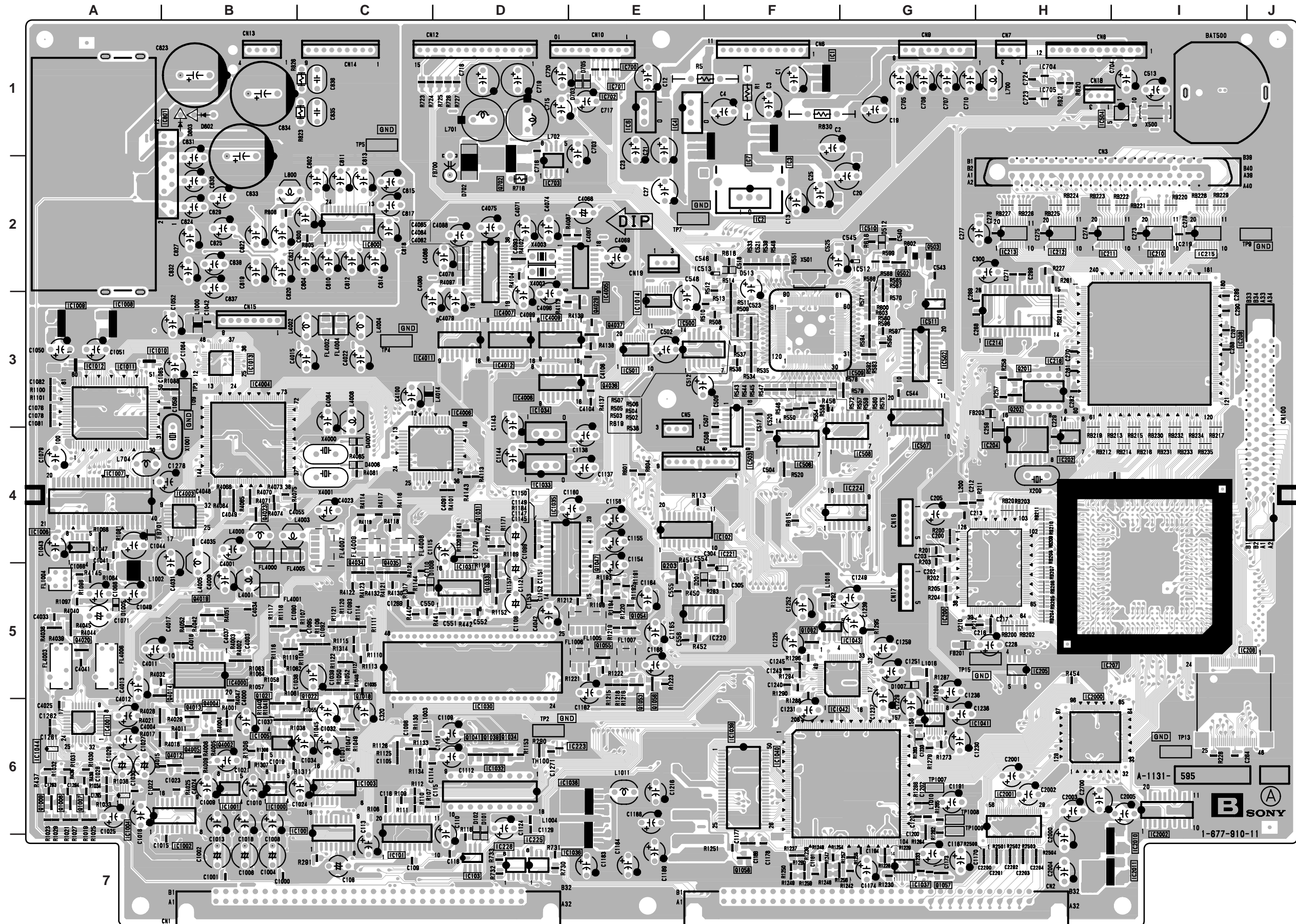
B-SS9695UC-B...-P11











**B -A SIDE-**  
SUFFIX: -11



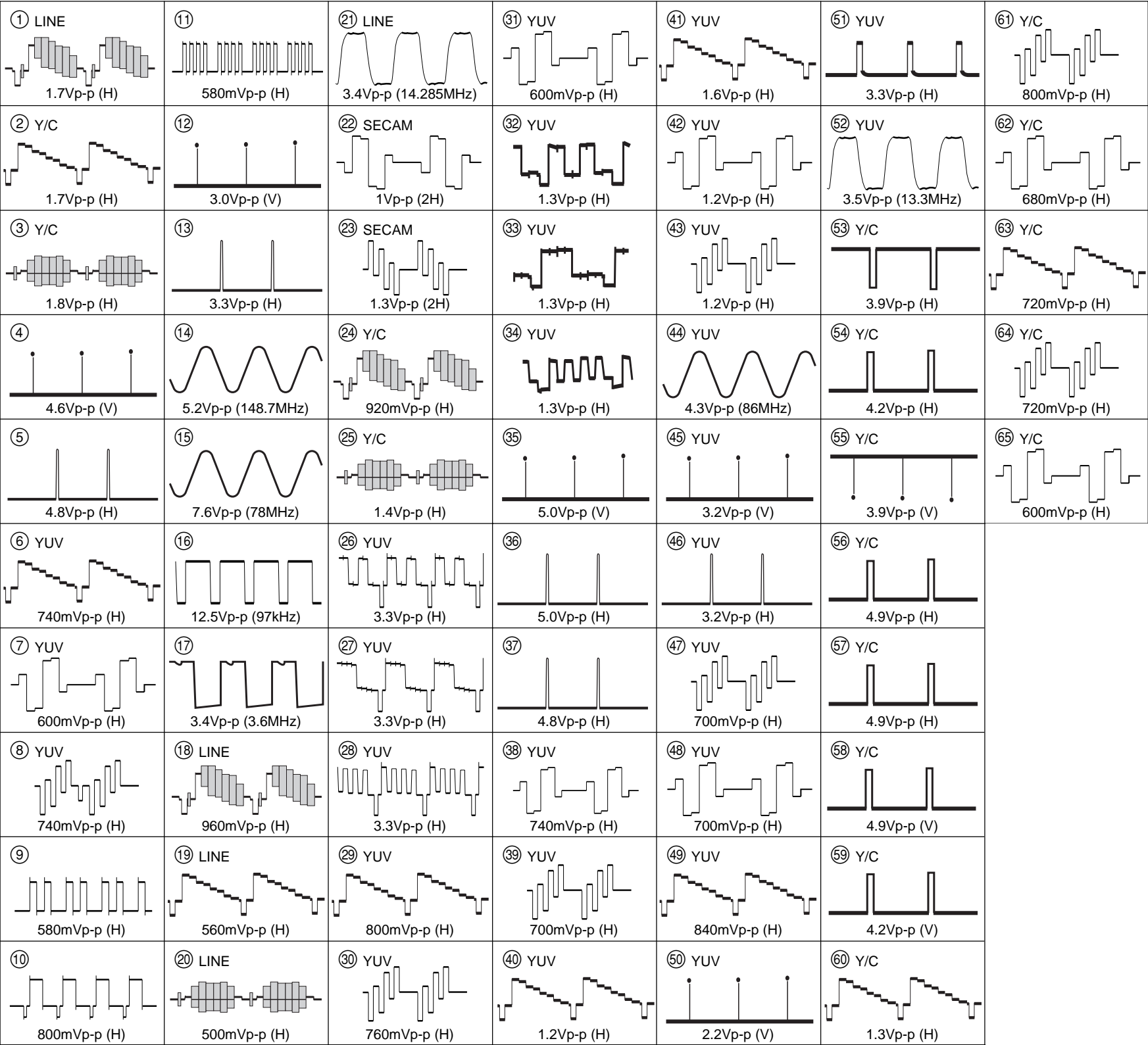


B BOARD

\*: B SIDE

|        |       |        |       |       |       |        |       |
|--------|-------|--------|-------|-------|-------|--------|-------|
| IC1    | F-1   | IC1044 | A-6   | Q1057 | G-7   | D4002  | * B-5 |
| IC2    | F-2   | IC4000 | B-5   | Q1058 | F-7   | D4003  | * B-6 |
| IC3    | F-1   | IC4001 | A-6   | Q1059 | * F-7 | D4004  | * B-4 |
| IC4    | E-1   | IC4003 | B-4   | Q1060 | * G-6 | D4005  | * B-5 |
| IC6    | E-1   | IC4004 | B-3   | Q1061 | * G-6 | D4006  | C-4   |
| IC7    | F-1   | IC4005 | E-2   | Q1063 | * G-5 | D4007  | C-4   |
| IC100  | C-6   | IC4006 | D-3   | Q1064 | * F-5 |        |       |
| IC102  | E-4   | IC4007 | D-3   | Q1066 | * C-5 | TP2    | D-6   |
| IC101  | C-6   | IC4008 | D-3   | Q1082 | F-5   | TP3    | B-3   |
| IC103  | D-7   | IC4009 | D-3   | Q1085 | * G-5 | TP4    | C-3   |
| IC200  | H-4   | IC4010 | * B-5 | Q4000 | * B-6 | TP5    | C-1   |
| IC202  | H-3   | IC4011 | D-3   | Q4001 | * B-5 | TP7    | E-2   |
| IC204  | H-3   | IC4012 | D-3   | Q4002 | B-6   | TP9    | J-2   |
| IC205  | H-5   |        |       | Q4003 | * A-6 | TP13   | I-6   |
| IC206  | I-5   | Q100   | * C-6 | Q4004 | B-6   | TP15   | H-5   |
| IC207  | I-4   | Q101   | * C-7 | Q4006 | * A-6 | TP1007 | G-6   |
| IC208  | H-3   | Q102   | * C-7 | Q4007 | * B-6 | TP1008 | G-6   |
| IC209  | * H-3 | Q103   | * C-7 | Q4008 | * B-6 | TP1009 | G-6   |
| IC210  | I-2   | Q104   | * D-7 | Q4009 | * B-5 |        |       |
| IC211  | H-2   | Q200   | * H-5 | Q4005 | B-6   |        |       |
| IC212  | H-2   | Q201   | H-3   | Q4010 | * B-5 |        |       |
| IC213  | H-2   | Q202   | H-3   | Q4012 | B-6   |        |       |
| IC214  | H-3   | Q203   | E-5   | Q4011 | * A-6 |        |       |
| IC215  | I-2   | Q500   | * I-1 |       |       |        |       |
| IC216  | H-3   | Q501   | * I-1 | Q4013 | B-6   |        |       |
| IC218  | * H-4 | Q502   | G-2   | Q4014 | B-5   |        |       |
| IC219  | I-2   | Q503   | G-2   | Q4015 | * A-6 |        |       |
| IC220  | E-5   | Q700   | * D-2 | Q4016 | * B-5 |        |       |
| IC221  | F-4   | Q701   | * D-2 | Q4017 | * A-5 |        |       |
| IC222  | * H-2 | Q702   | D-2   | Q4018 | * A-5 |        |       |
| IC223  | D-6   | Q800   | * B-2 | Q4019 | B-5   |        |       |
| IC224  | F-4   | Q801   | * B-2 | Q4020 | A-5   |        |       |
| IC225  | D-7   | Q802   | * A-2 | Q4021 | * B-5 |        |       |
| IC226  | D-7   | Q803   | * B-2 | Q4022 | * B-4 |        |       |
| IC500  | E-3   | Q804   | * B-2 | Q4023 | B-4   |        |       |
| IC502  | G-3   | Q1000  | * B-6 | Q4024 | * B-4 |        |       |
| IC501  | E-3   | Q1001  | * B-7 | Q4025 | * E-3 |        |       |
| IC503  | F-3   | Q1002  | * A-7 | Q4026 | * E-2 |        |       |
| IC504  | I-1   | Q1003  | * B-6 | Q4027 | * D-2 |        |       |
| IC505  | * F-4 | Q1004  | * A-6 | Q4028 | * E-3 |        |       |
| IC506  | F-3   | Q1005  | * A-6 | Q4029 | E-3   |        |       |
| IC507  | G-3   | Q1006  | * A-6 | Q4030 | * C-4 |        |       |
| IC508  | F-4   | Q1007  | A-6   | Q4031 | * C-4 |        |       |
| IC509  | F-3   | Q1008  | A-6   | Q4032 | * C-4 |        |       |
| IC510  | G-2   | Q1009  | A-6   | Q4033 | * C-4 |        |       |
| IC511  | G-3   | Q1010  | * A-6 | Q4034 | C-5   |        |       |
| IC512  | G-2   | Q1011  | * A-6 | Q4035 | C-5   |        |       |
| IC700  | E-1   | Q1012  | * A-6 | Q4036 | E-3   |        |       |
| IC701  | E-1   | Q1013  | * A-6 | Q4037 | E-3   |        |       |
| IC702  | E-1   | Q1014  | * C-6 | Q4038 | * E-3 |        |       |
| IC703  | D-2   | Q1015  | * C-6 | Q4039 | * D-3 |        |       |
| IC704  | H-1   | Q1016  | * C-5 |       |       |        |       |
| IC705  | H-1   | Q1017  | * C-5 | D1    | * F-2 |        |       |
| IC800  | C-2   | Q1018  | C-5   | D100  | * C-7 |        |       |
| IC801  | B-1   | Q1019  | * C-5 | D101  | D-6   |        |       |
| IC1000 | B-6   | Q1020  | * B-6 | D102  | D-6   |        |       |
| IC1001 | B-6   | Q1021  | B-5   | D201  | E-5   |        |       |
| IC1002 | B-7   | Q1023  | * B-5 | D500  | * E-4 |        |       |
| IC1003 | C-6   | Q1024  | * B-5 | D501  | * E-4 |        |       |
| IC1004 | A-6   | Q1025  | * B-3 | D502  | * E-4 |        |       |
| IC1005 | B-6   | Q1022  | C-6   | D503  | * E-4 |        |       |
| IC1006 | A-4   | Q1026  | * A-5 | D504  | * F-4 |        |       |
| IC1007 | A-4   | Q1027  | * A-4 | D505  | * F-4 |        |       |
| IC1008 | A-3   | Q1028  | * A-5 | D506  | * F-4 |        |       |
| IC1009 | A-3   | Q1029  | * C-6 | D507  | * E-4 |        |       |
| IC1010 | A-3   | Q1030  | * D-4 | D508  | * E-4 |        |       |
| IC1011 | A-3   | Q1031  | D-4   | D509  | * E-4 |        |       |
| IC1012 | A-3   | Q1032  | * D-5 | D511  | * E-3 |        |       |
| IC1013 | B-3   | Q1033  | D-5   | D512  | G-2   |        |       |
| IC1014 | E-3   | Q1034  | D-6   | D513  | F-2   |        |       |
| IC2000 | H-6   | Q1035  | * D-6 | D514  | * I-1 |        |       |
| IC2001 | H-6   | Q1036  | * D-6 | D700  | * D-1 |        |       |
| IC2002 | I-6   | Q1037  | * D-6 | D701  | * E-1 |        |       |
| IC2010 | H-7   | Q1038  | * D-5 | D702  | C-2   |        |       |
| IC2011 | H-7   | Q1039  | D-6   | D703  | E-1   |        |       |
| IC1027 | * B-5 | Q1040  | * D-5 | D704  | * E-1 |        |       |
| IC1028 | * C-5 | Q1041  | D-6   | D705  | E-1   |        |       |
| IC1029 | * C-6 | Q1042  | * D-4 | D800  | * A-1 |        |       |
| IC1030 | D-5   | Q1043  | * D-4 | D801  | * B-1 |        |       |
| IC1031 | D-4   | Q1044  | * D-5 | D802  | * B-1 |        |       |
| IC1032 | D-6   | Q1045  | * E-5 | D802  | B-1   |        |       |
| IC1033 | D-4   | Q1046  | * E-5 | D803  | B-1   |        |       |
| IC1034 | D-4   | Q1047  | E-5   | D1000 | * B-7 |        |       |
| IC1035 | D-4   | Q1048  | * E-5 | D1001 | * B-7 |        |       |
| IC1036 | E-6   | Q1049  | * E-5 | D1002 | * B-7 |        |       |
| IC1037 | G-7   | Q1050  | * E-5 | D1003 | * B-6 |        |       |
| IC1038 | E-6   | Q1051  | * E-5 | D1004 | * B-6 |        |       |
| IC1039 | F-6   | Q1052  | * E-5 | D1005 | A-5   |        |       |
| IC1040 | F-6   | Q1053  | E-5   | D1006 | C-5   |        |       |
| IC1041 | G-5   | Q1054  | E-5   | D1007 | G-5   |        |       |
| IC1042 | F-5   | Q1055  | E-5   | D4000 | * A-5 |        |       |
| IC1043 | F-5   | Q1056  | E-5   | D4001 | * B-6 |        |       |

B Board Waveforms

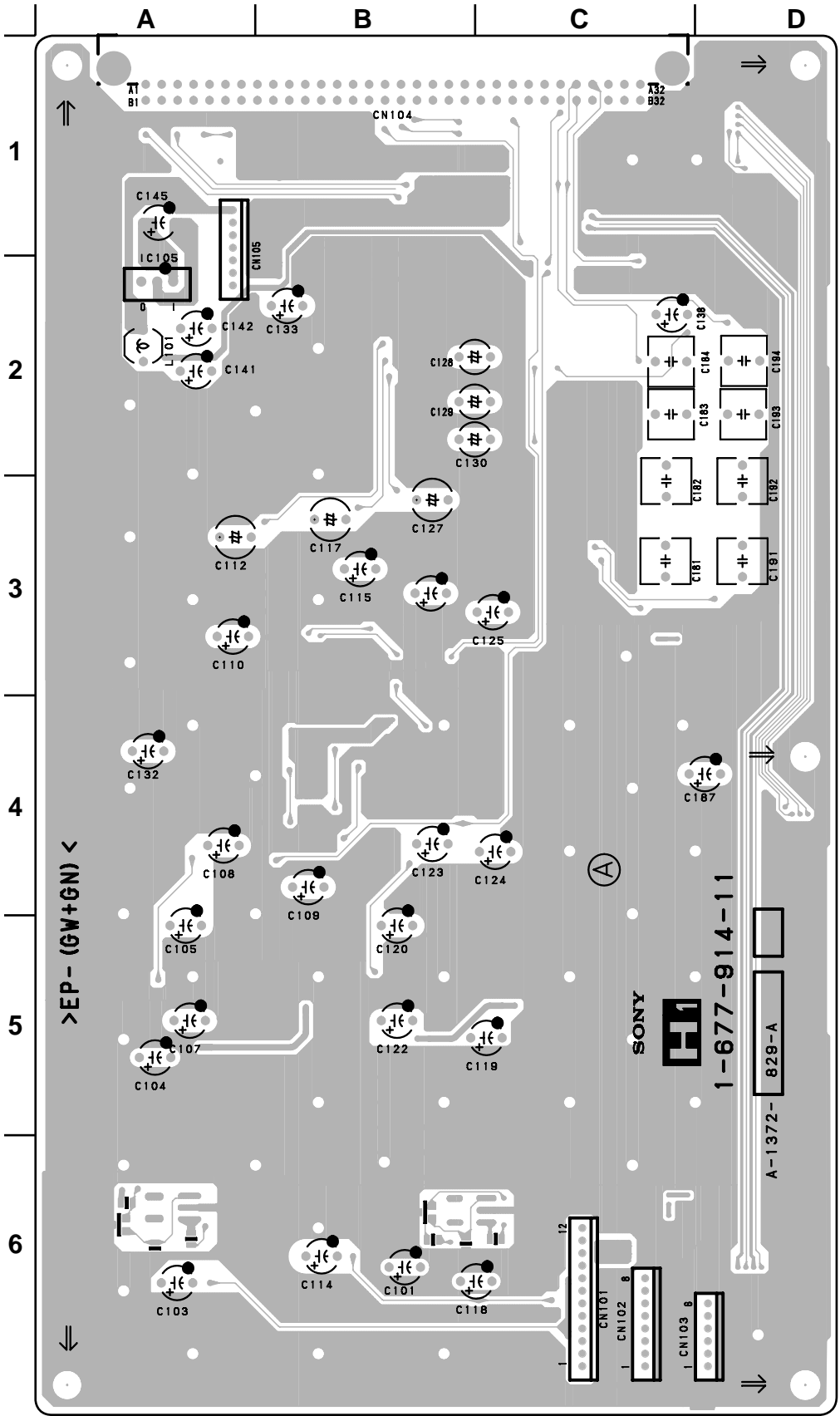


H1 BOARD  
\*: B SIDE

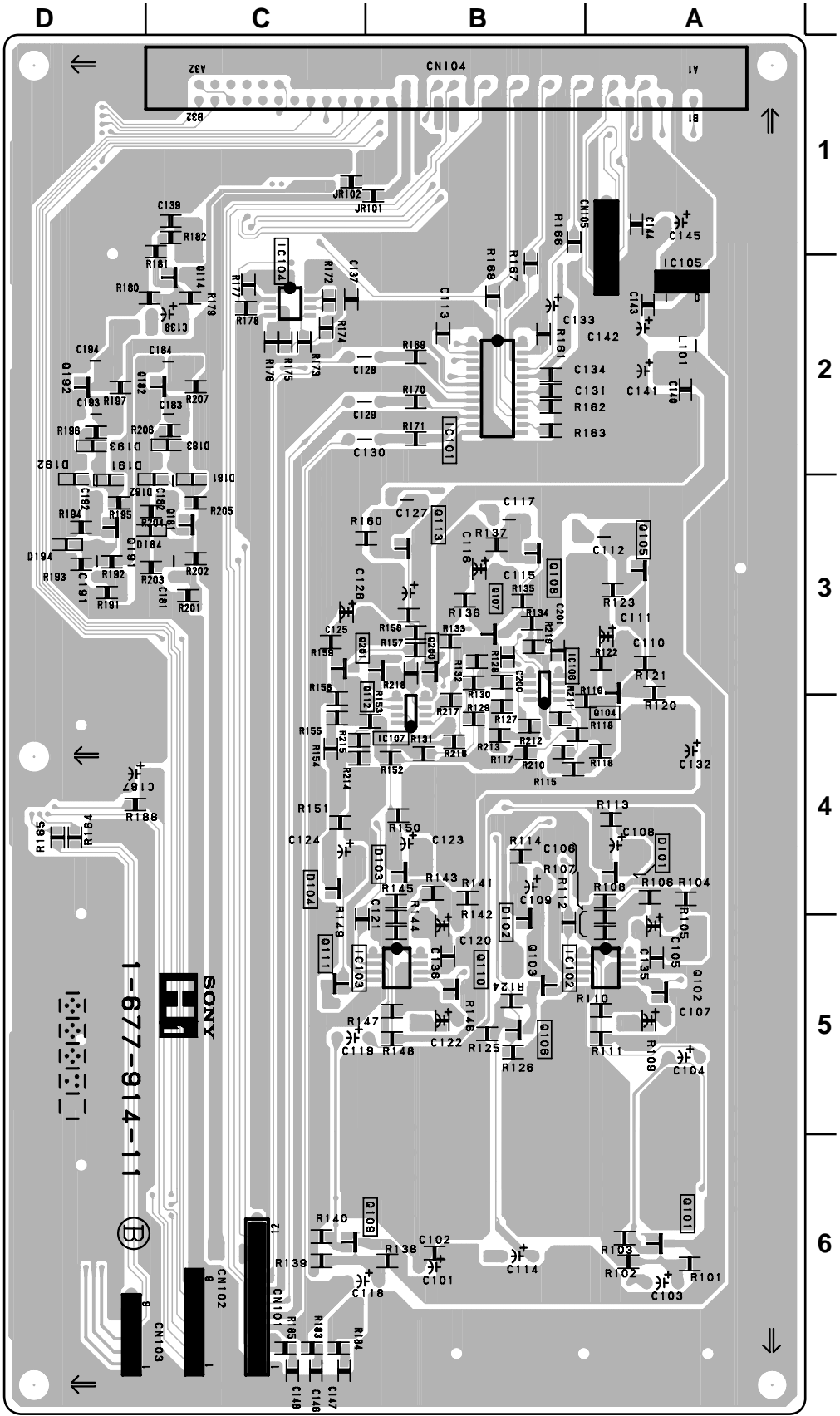
D101 \* A-4  
D102 \* B-5  
D103 \* B-4  
D104 \* C-4  
D181 \* C-3  
D182 \* C-3  
D184 \* C-3  
D191 \* D-2  
D192 \* D-2  
D193 \* D-2  
D194 \* D-3

IC101 \* B-2  
IC102 \* A-5  
IC103 \* B-5  
IC104 \* C-2  
IC105 \* A-2  
IC106 \* B-3  
IC107 \* B-4

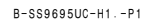
Q101 \* A-6  
Q102 \* A-5  
Q103 \* B-5  
Q104 \* A-4  
Q105 \* A-3  
Q106 \* B-5  
Q107 \* B-3  
Q108 \* B-3  
Q109 \* C-6  
Q110 \* B-5  
Q111 \* C-5  
Q112 \* B-3  
Q113 \* B-3  
Q114 \* C-2  
Q181 \* C-3  
Q182 \* C-2  
Q191 \* D-3  
Q192 \* D-2  
Q200 \* B-3  
Q201 \* C-3

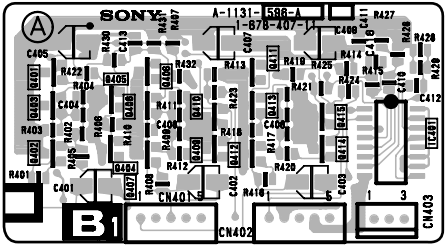


H1 -A SIDE-  
SUFFIX: -11

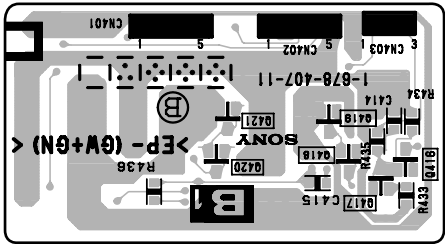


H1 -B SIDE-  
SUFFIX: -11

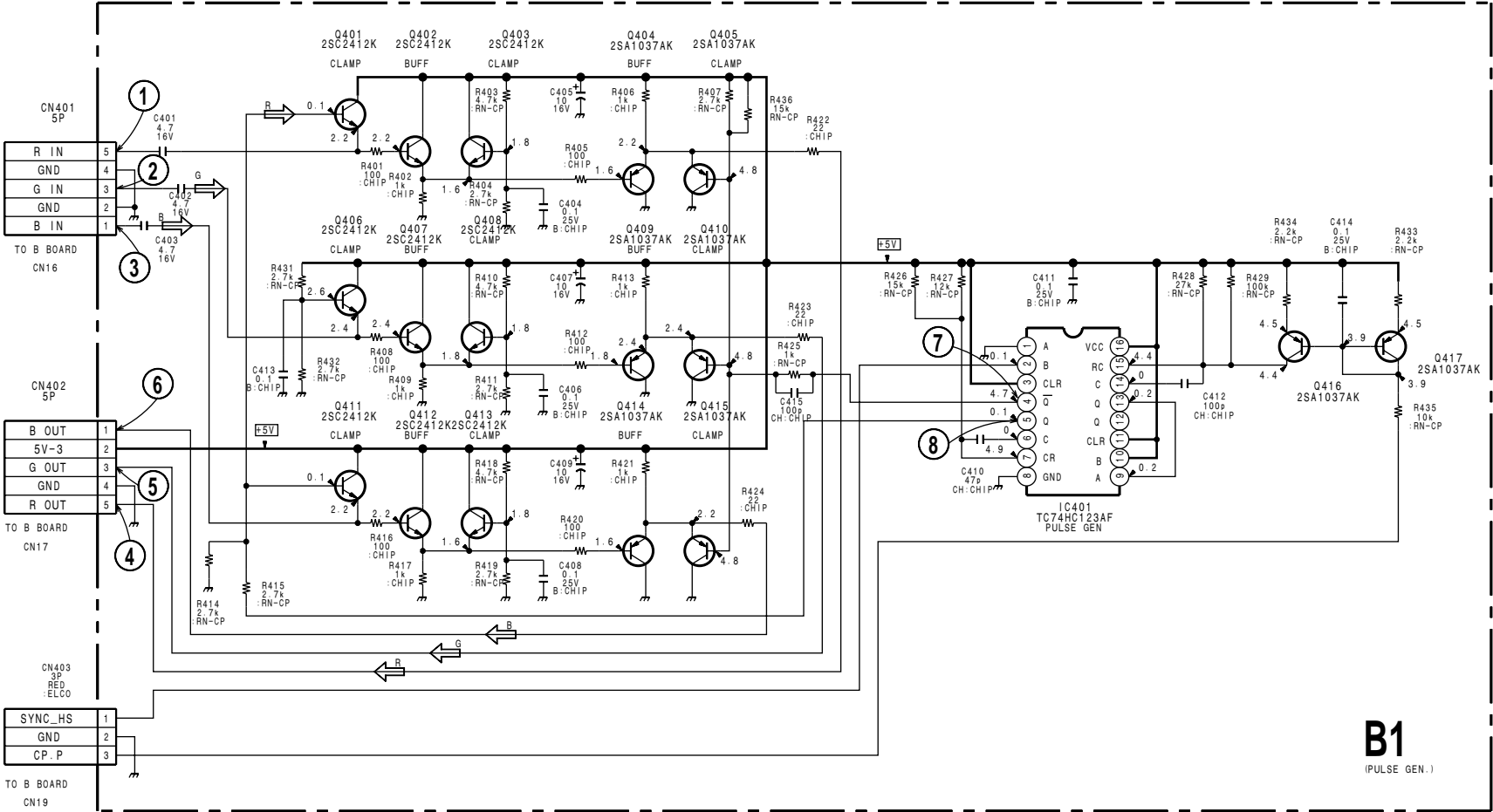
[illegible]



B1 -A SIDE-  
SUFFIX: -11



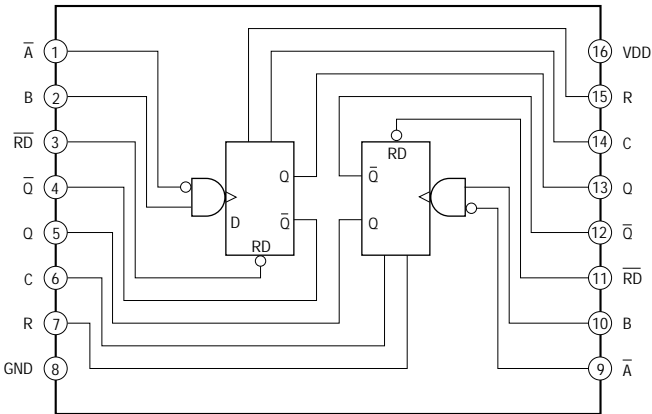
B1 -B SIDE-  
SUFFIX: -11



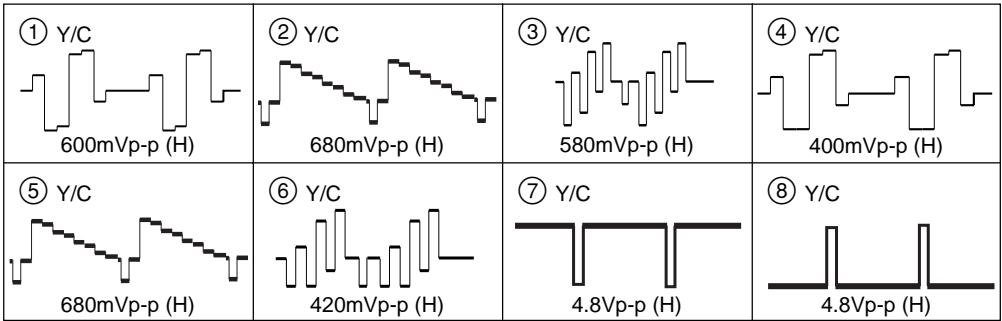
B1  
(PULSE GEN.)

B-SS9695UC-B1.-P1

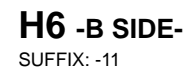
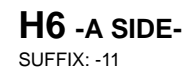
TC74HC123AF(EL) (IC401)



B1 Board Waveforms





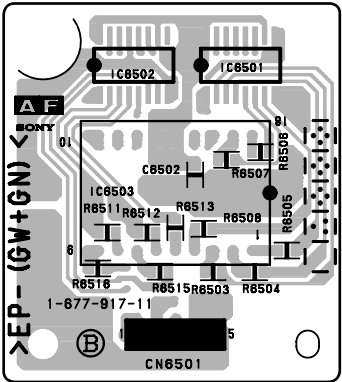
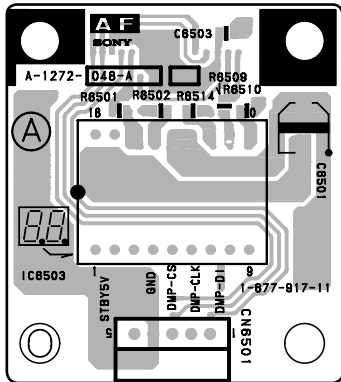


①

4.2Vp-p (4MHz)

1

2



AF -A SIDE-  
SUFFIX: -11

AF -B SIDE-  
SUFFIX: -11

LB-602MA2 (IC6503)

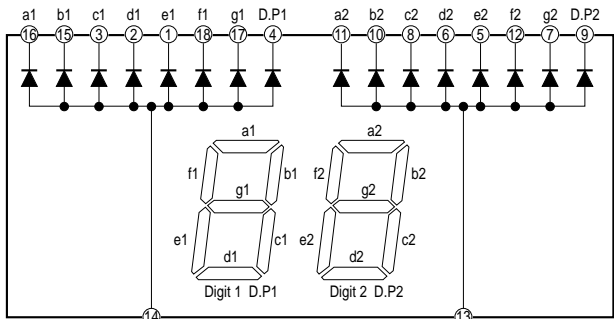
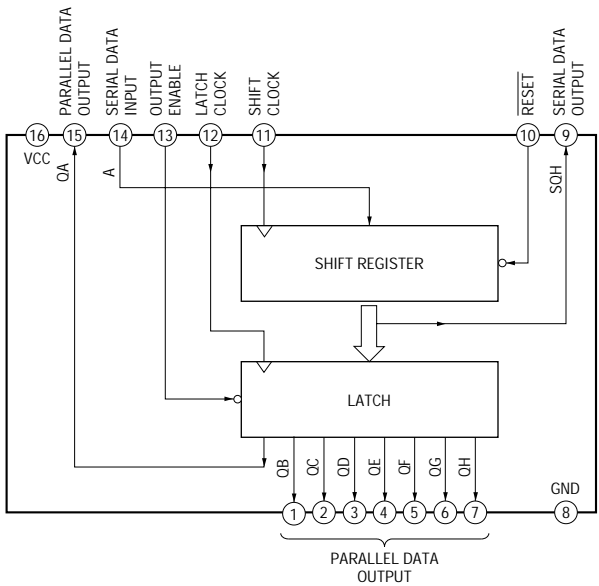


Fig. 1 COM

Fig. 2 COM

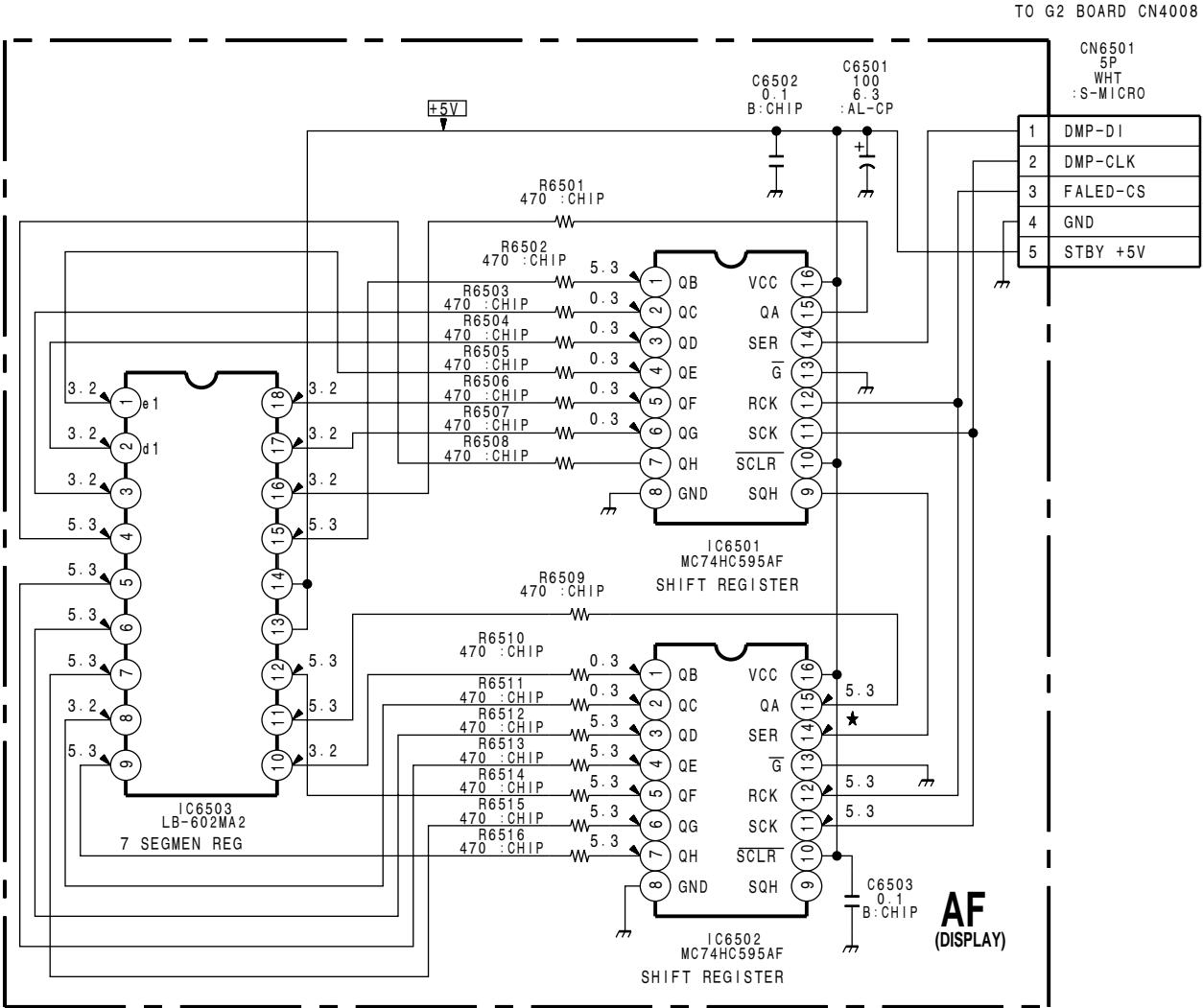
MC74HC595AF-T2 (IC6501, IC6502)



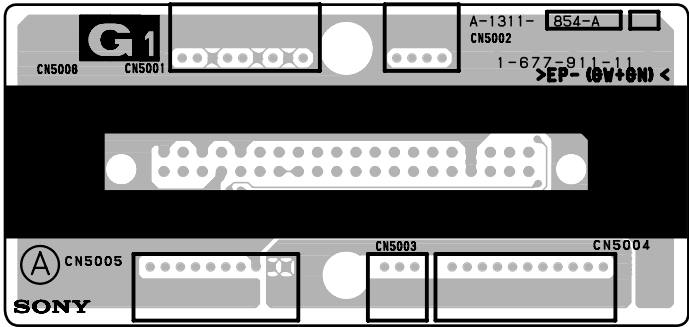
3

4

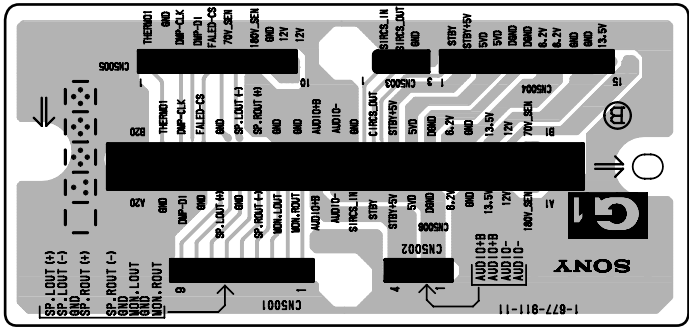
5



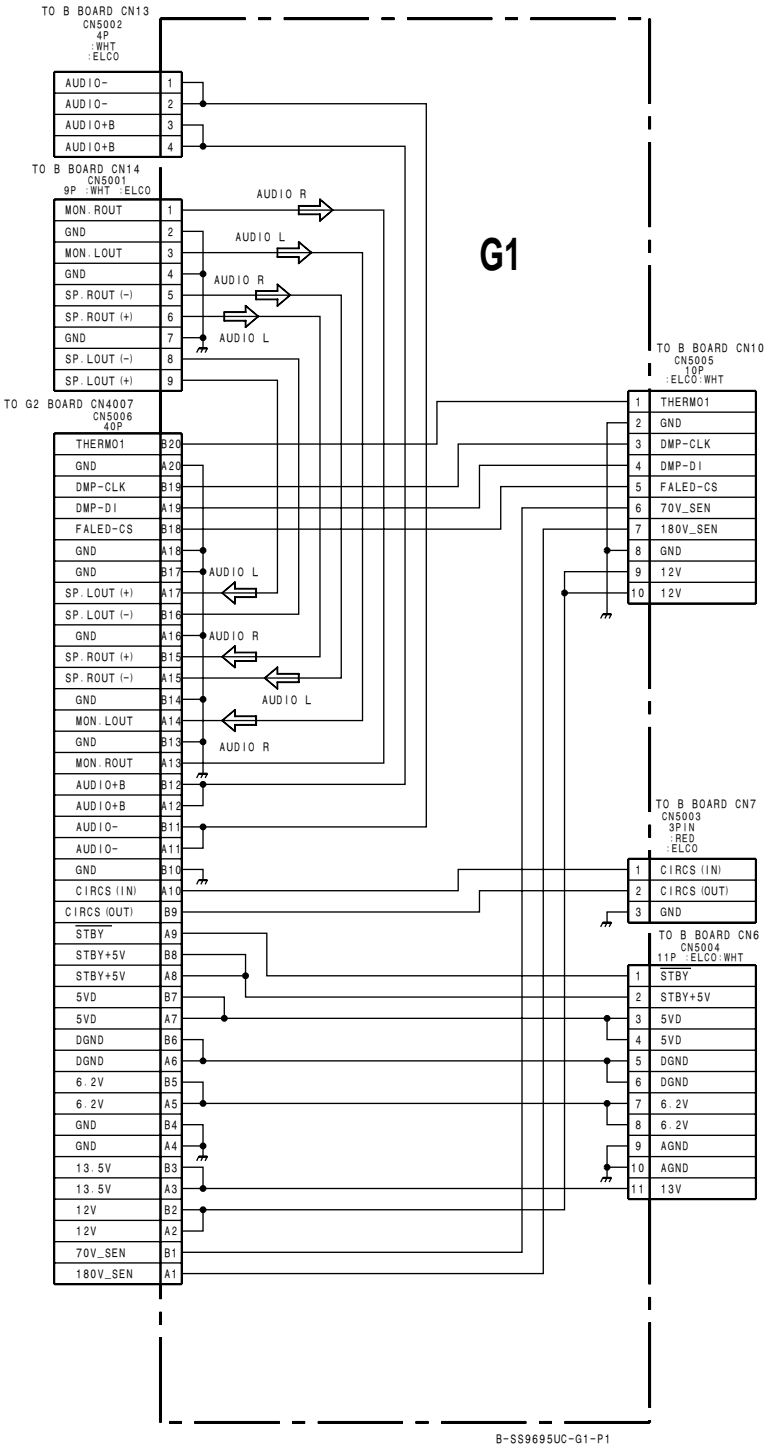
B-SS9695UC-AF-P1



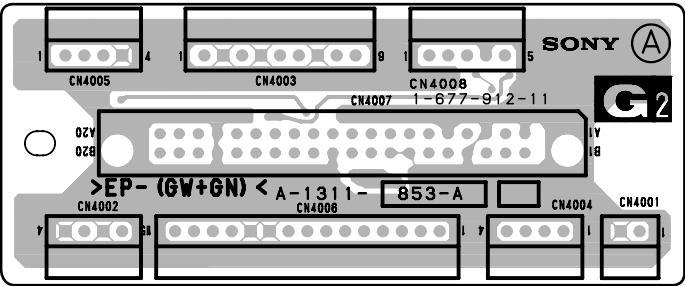
G1 -A SIDE-  
SUFFIX: -11



G1 -B SIDE-  
SUFFIX: -11

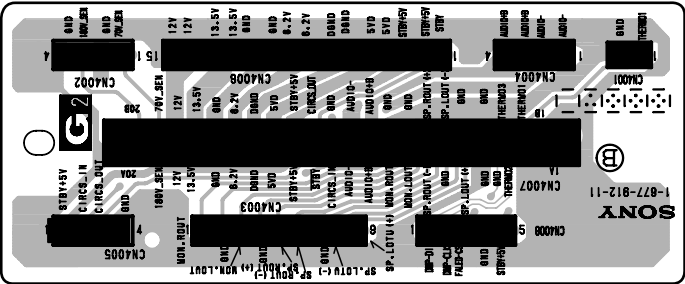


1



G2 -A SIDE-  
SUFFIX: -11

2

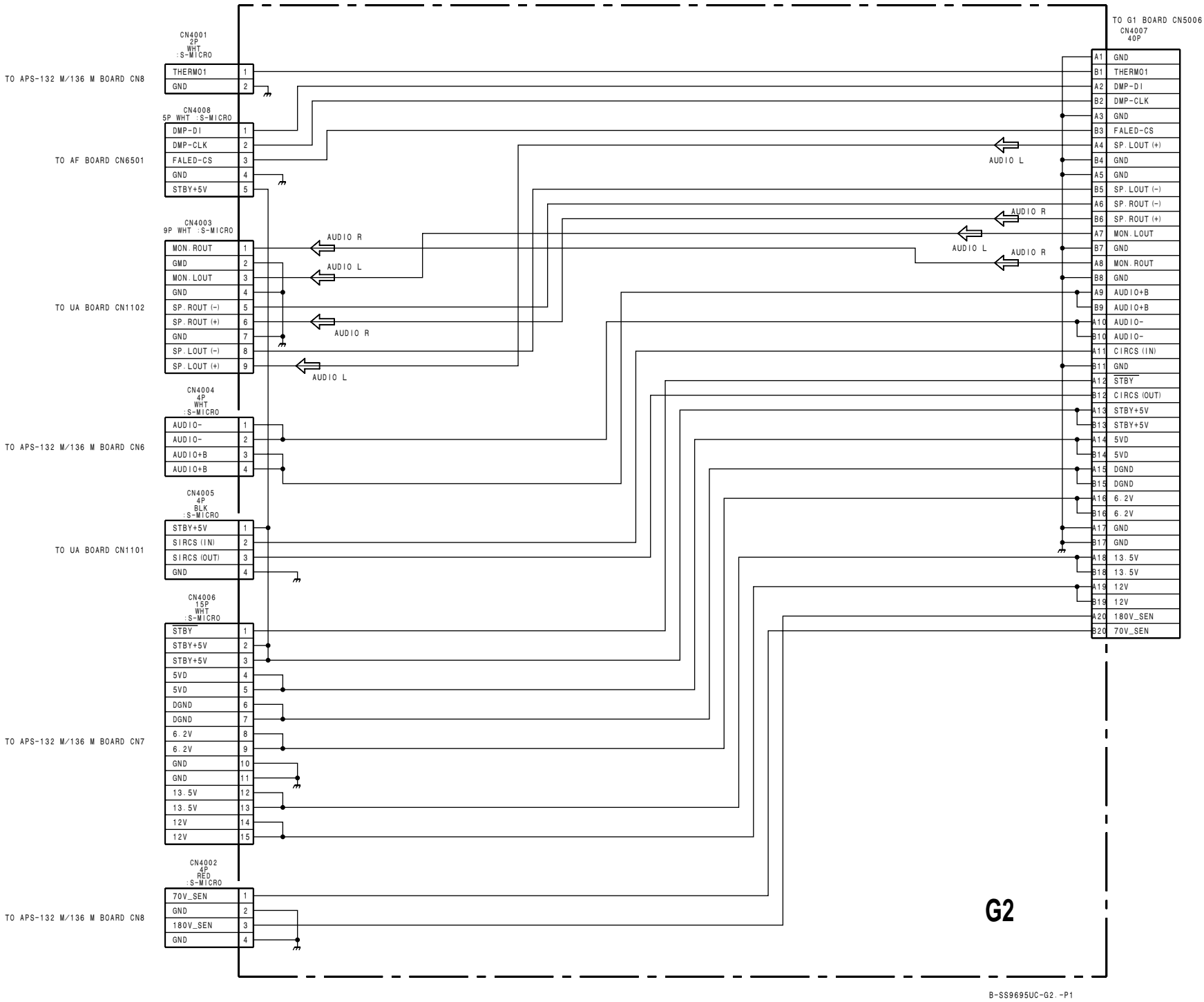


G2 -B SIDE-  
SUFFIX: -11

3

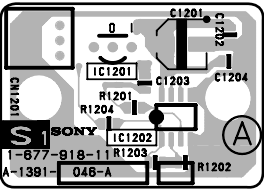
4

5

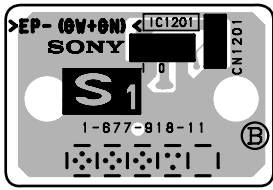


G2

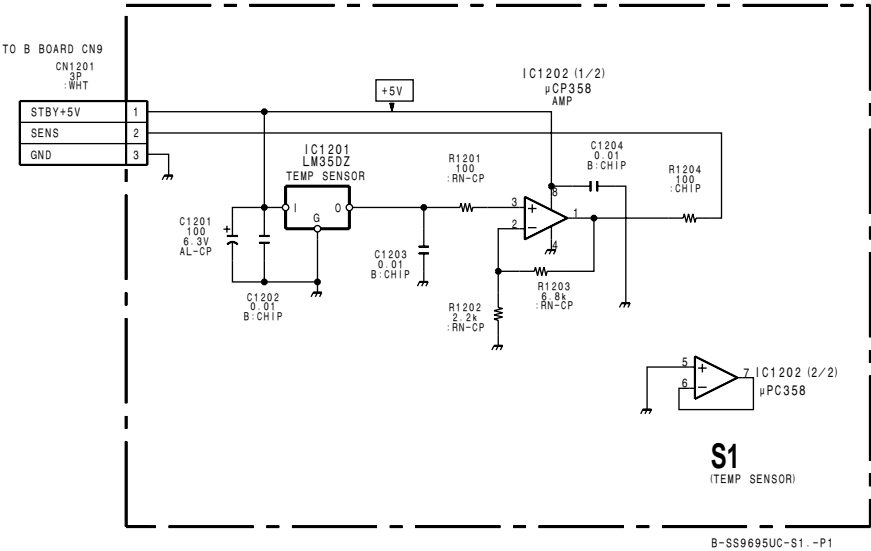
B-SS9695UC-G2. -P1



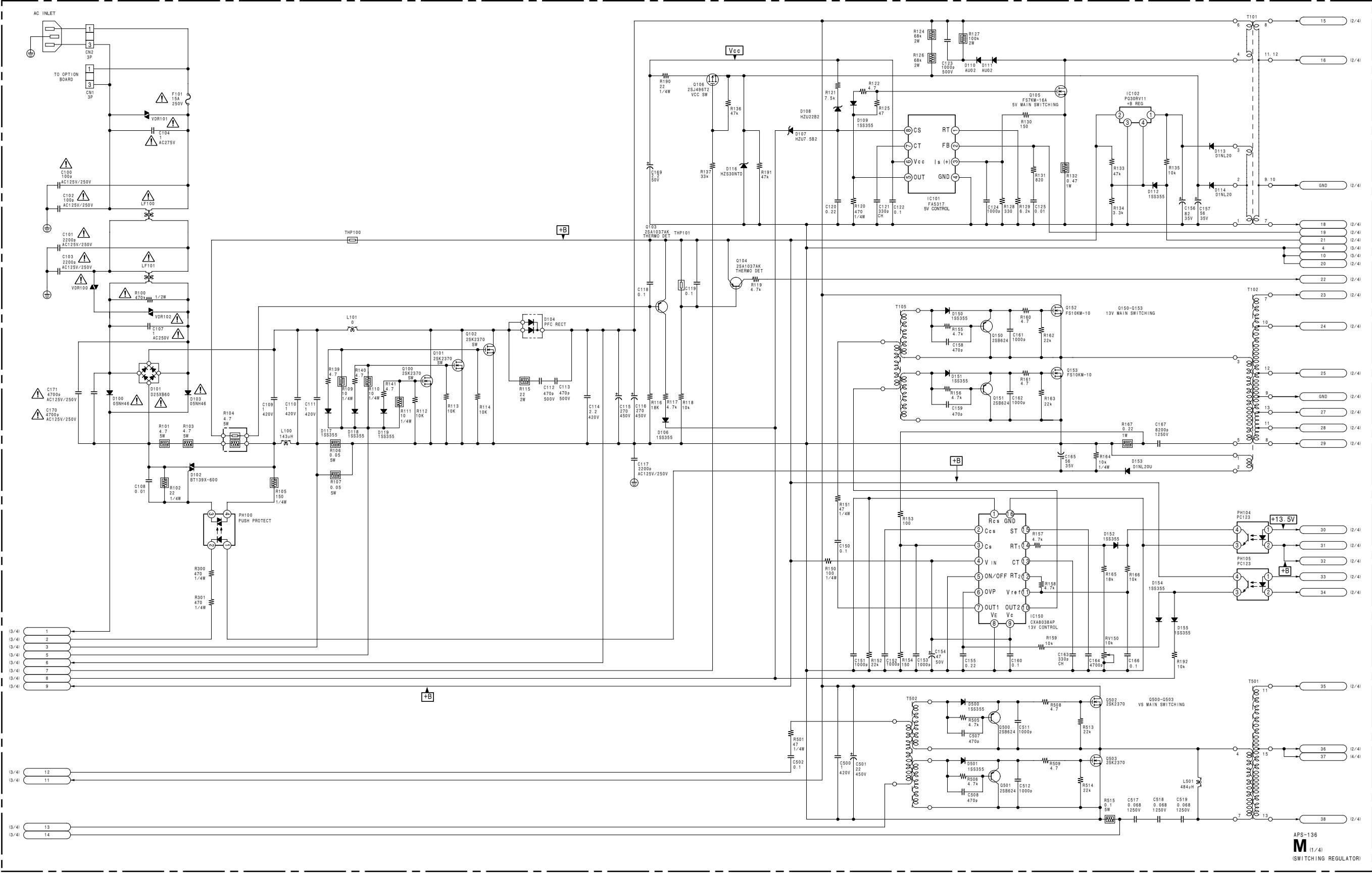
S1 -A SIDE-  
SUFFIX: -11



S1 -B SIDE-  
SUFFIX: -11

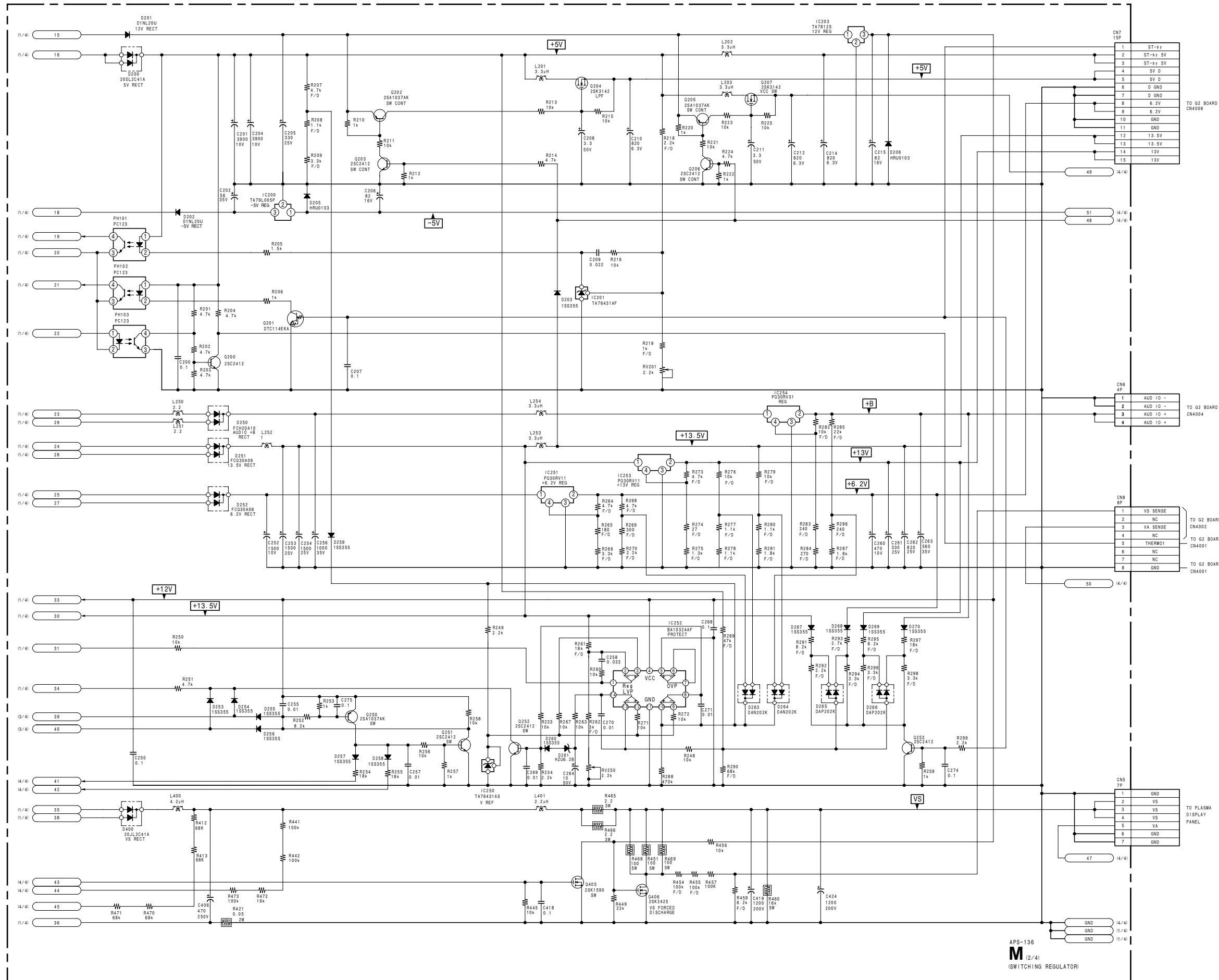


PFM-500A3W



APS-136  
M (1/4)  
(SWITCHING REGULATOR)

B-SS9694J-M-P1. EPS



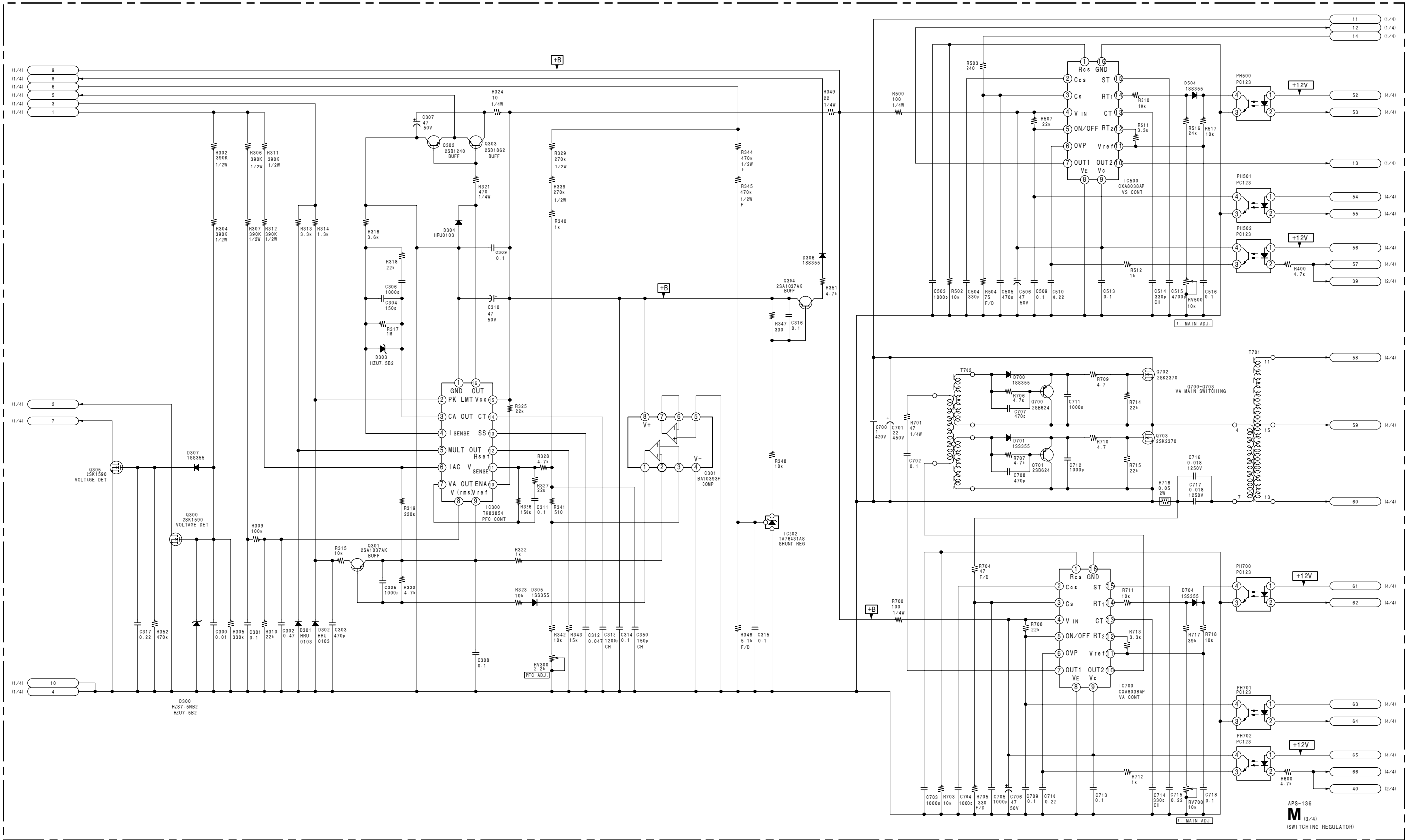
1

2

3

4

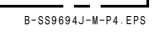
5



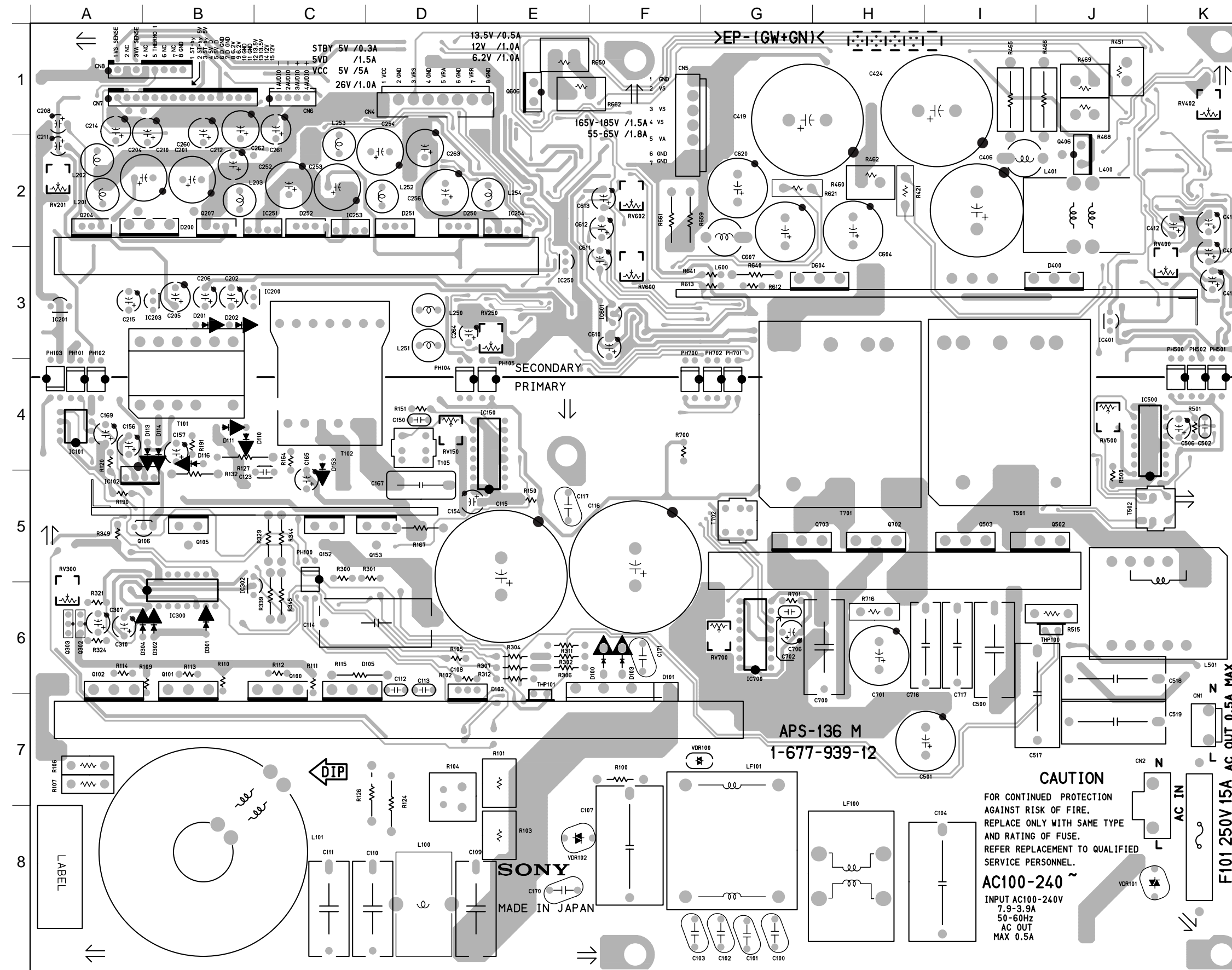
APS-136  
M (3/4)  
(SWITCHING REGULATOR)

B-SS9694J-M-P3.EPS





PFM-500A3W



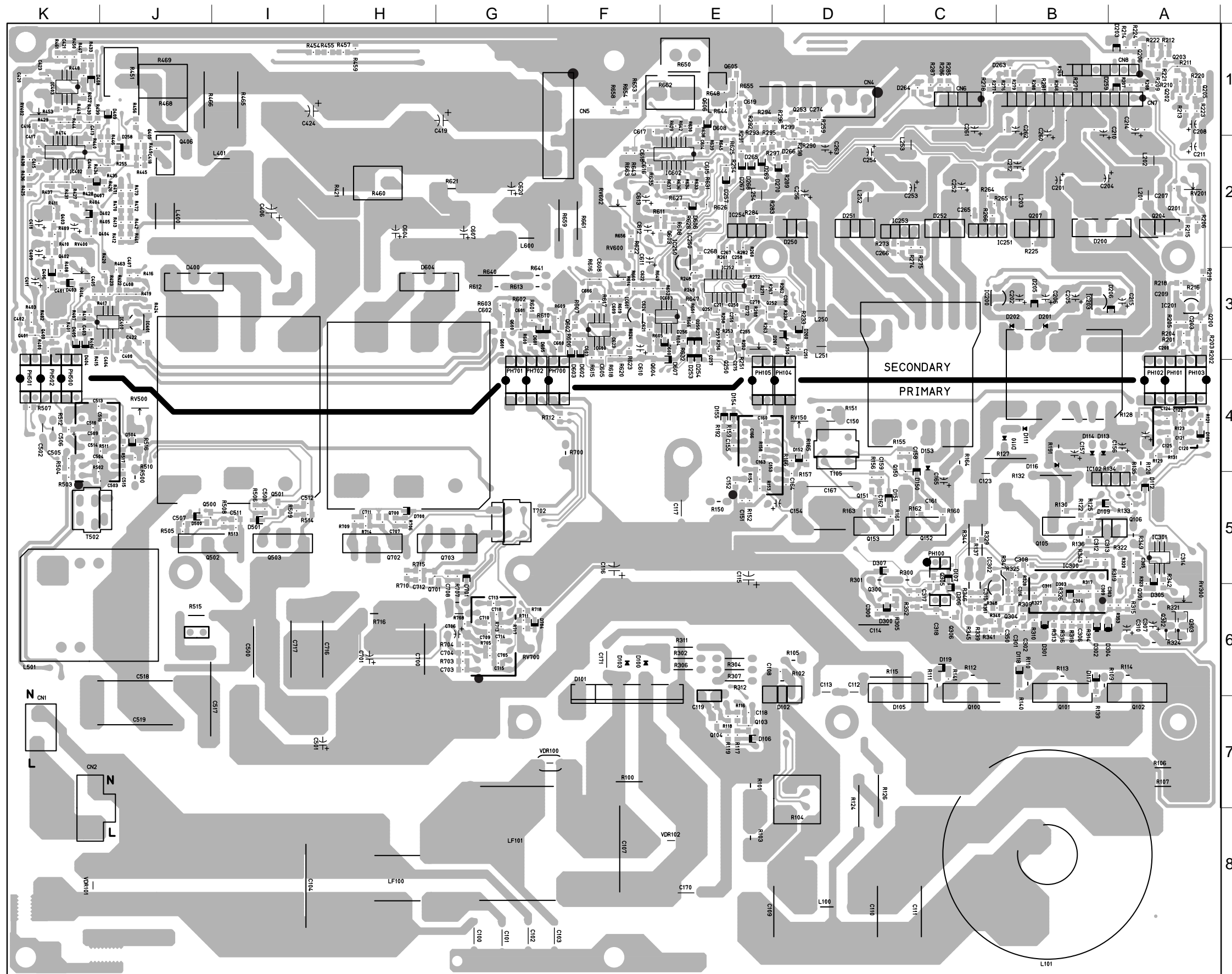
M BOARD (APS-136)

\* : B SIDE

|       |       |        |       |
|-------|-------|--------|-------|
| D100  | F-6   | IC203  | B-3   |
| D101  | F-6   | IC250  | E-3   |
| D102  | D-6   | IC251  | C-2   |
| D103  | F-6   | IC252  | * E-3 |
| D105  | C-6   | IC253  | C-2   |
| D106  | * E-7 | IC254  | E-2   |
| D107  | * C-5 | IC300  | B-6   |
| D108  | * A-4 | IC301  | * A-5 |
| D109  | * B-5 | IC302  | B-6   |
| D110  | B-4   | IC400  | * J-3 |
| D111  | B-4   | IC401  | J-3   |
| D112  | * A-5 | IC402  | * K-2 |
| D113  | B-4   | IC403  | * K-1 |
| D114  | B-4   | IC500  | K-4   |
| D116  | B-4   | IC600  | * F-3 |
| D117  | * B-6 | IC601  | F-3   |
| D118  | * B-6 | IC602  | * E-2 |
| D119  | * C-6 | IC603  | * E-3 |
| D150  | * C-4 | IC700  | G-6   |
| D151  | * C-5 |        |       |
| D152  | * D-4 | Q100   | C-6   |
| D153  | * C-4 | Q101   | B-6   |
| D154  | * E-4 | Q102   | A-6   |
| D155  | * E-4 | Q103   | * E-7 |
| D200  | B-2   | Q104   | * E-7 |
| D201  | B-3   | Q105   | B-5   |
| D202  | B-3   | Q106   | A-5   |
| D203  | * A-1 | Q150   | * C-4 |
| D205  | * B-3 | Q151   | * D-5 |
| D206  | * A-3 | Q152   | C-5   |
| D250  | D-2   | Q153   | D-5   |
| D251  | D-2   | Q200   | * A-3 |
| D252  | C-2   | Q201   | * A-2 |
| D253  | * E-3 | Q202   | * A-1 |
| D254  | * E-3 | Q203   | * A-1 |
| D255  | * E-3 | Q204   | A-2   |
| D256  | * E-3 | Q205   | * A-1 |
| D257  | * E-2 | Q206   | * A-1 |
| D258  | * J-2 | Q207   | B-2   |
| D259  | * A-1 | Q250   | * E-3 |
| D260  | * D-3 | Q251   | * E-3 |
| D261  | * D-3 | Q252   | * E-3 |
| D263  | * C-1 | Q253   | * D-1 |
| D264  | * C-1 | Q300   | * D-6 |
| D265  | * E-2 | Q301   | * A-6 |
| D266  | * D-2 | Q302   | A-6   |
| D267  | * E-2 | Q303   | A-6   |
| D268  | * E-2 | Q304   | * B-6 |
| D269  | * E-2 | Q305   | * C-5 |
| D270  | * D-2 | Q306   | * C-6 |
| D300  | * C-6 | Q400   | * K-3 |
| D301  | B-6   | Q401   | * K-3 |
| D302  | B-6   | Q402   | * K-3 |
| D303  | * B-6 | Q403   | * K-2 |
| D304  | B-6   | Q404   | * J-2 |
| D305  | * A-6 | Q405   | * J-2 |
| D306  | * C-6 | Q406   | * J-2 |
| D307  | * D-5 | Q500   | * J-5 |
| D400  | J-3   | Q501   | * I-5 |
| D402  | * K-2 | Q502   | J-5   |
| D403  | * K-3 | Q503   | I-5   |
| D404  | * K-3 | Q600   | * G-3 |
| D405  | * K-3 | Q601   | * G-3 |
| D406  | * K-3 | Q602   | * F-3 |
| D407  | * K-2 | Q603   | * E-2 |
| D408  | * K-1 | Q604   | * F-3 |
| D409  | * J-1 | Q605   | * E-1 |
| D500  | * J-5 | Q606   | E-1   |
| D501  | * I-5 | Q700   | * H-5 |
| D504  | * J-4 | Q701   | * H-6 |
| D600  | * E-3 | Q702   | H-5   |
| D601  | * G-3 | Q703   | G-5   |
| D602  | * F-3 |        |       |
| D603  | * F-3 | RV150  | D-4   |
| D604  | H-3   | RV201  | A-2   |
| D605  | * G-3 | RV250  | E-3   |
| D606  | * E-2 | RV300  | A-6   |
| D607  | * E-3 | RV400  | K-3   |
| D608  | * E-1 | RV402  | K-1   |
| D700  | * H-5 | RV500  | J-4   |
| D701  | * G-5 | RV600  | F-3   |
| D704  | * G-6 | RV602  | F-2   |
|       |       | RV700  | G-6   |
| IC101 | A-4   |        |       |
| IC102 | A-5   | THP100 | J-6   |
| IC150 | E-4   | THP101 | E-6   |
| IC200 | C-3   |        |       |
| IC201 | A-3   |        |       |

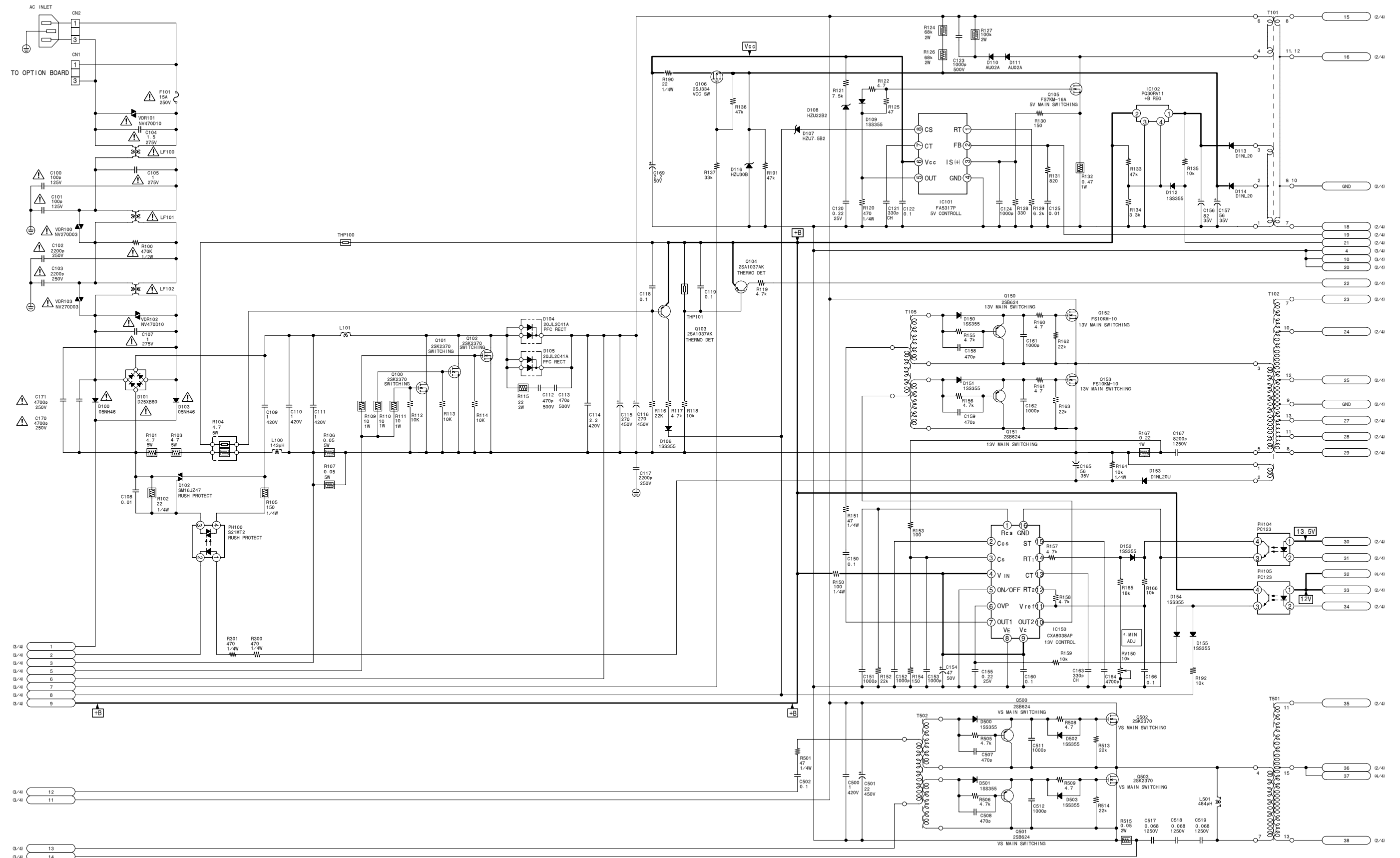
APS-136 M -A SIDE-

SUFFIX: -12



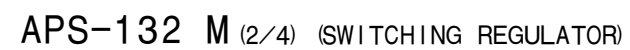
APS-136 M -B SIDE-  
SUFFIX: -12

**PFM-510A2W**



APS-132 M (1/4) (SWITCHING REGULATOR)

**APS-132 M (2/4)**



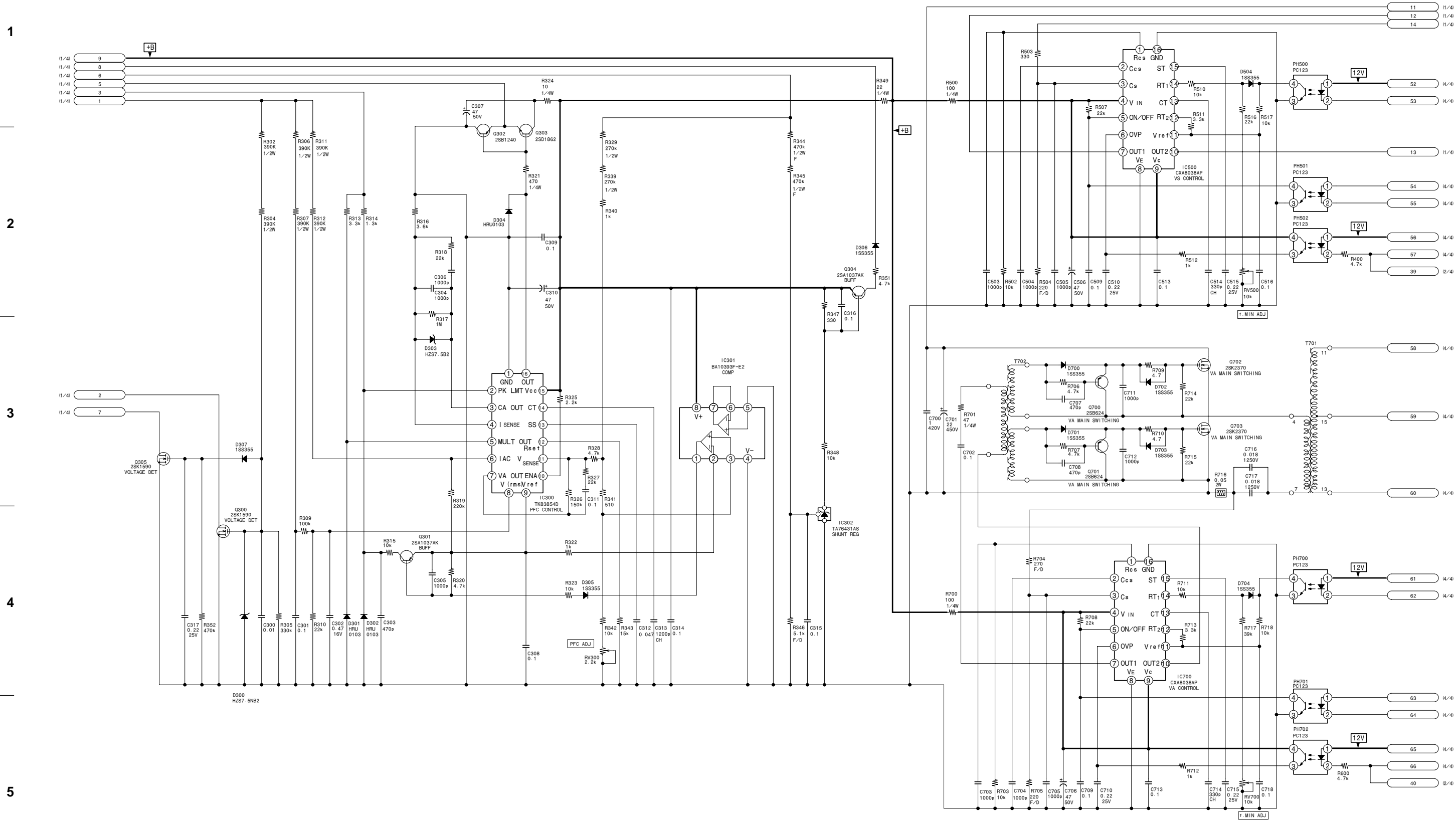
1

2

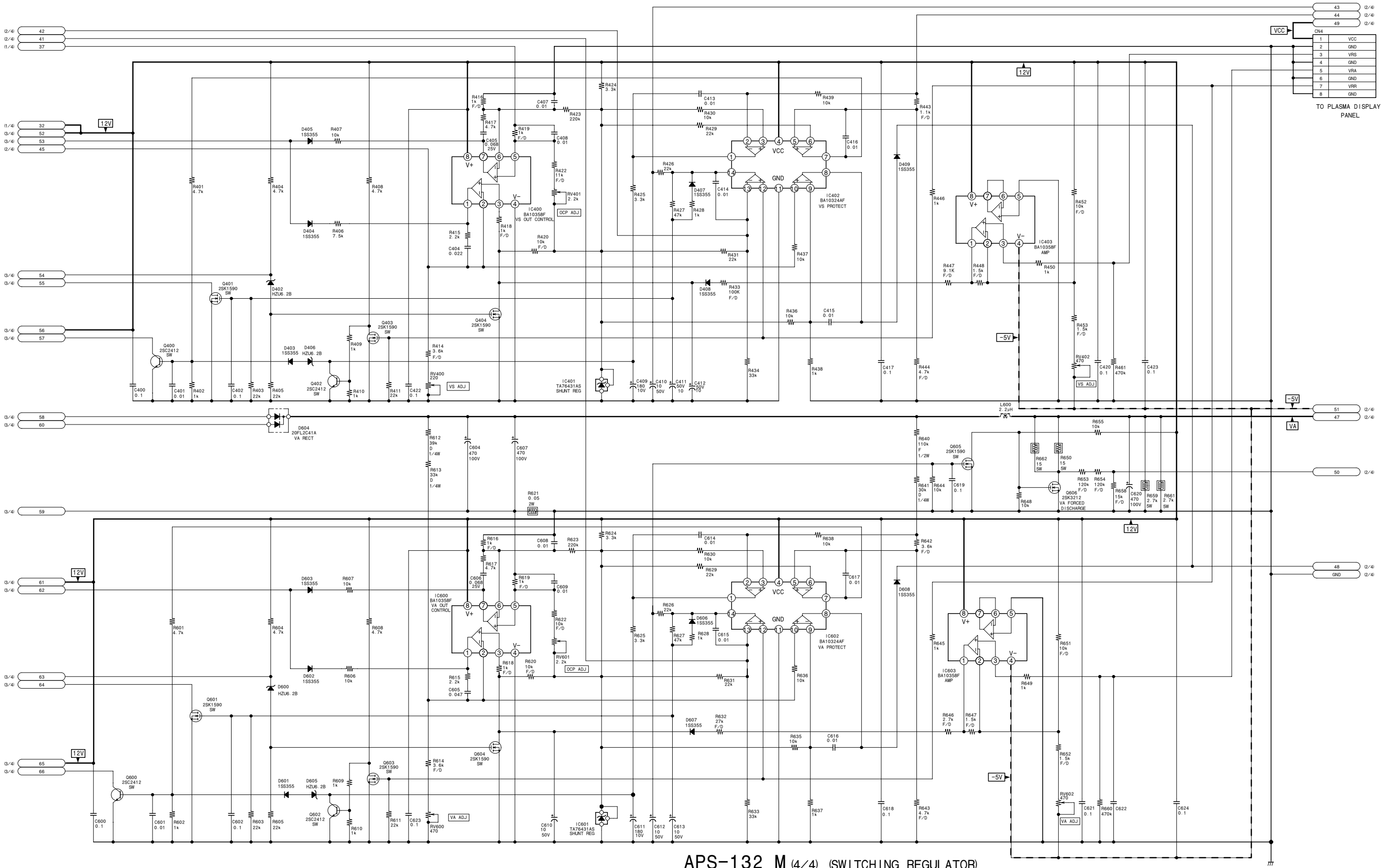
3

4

5



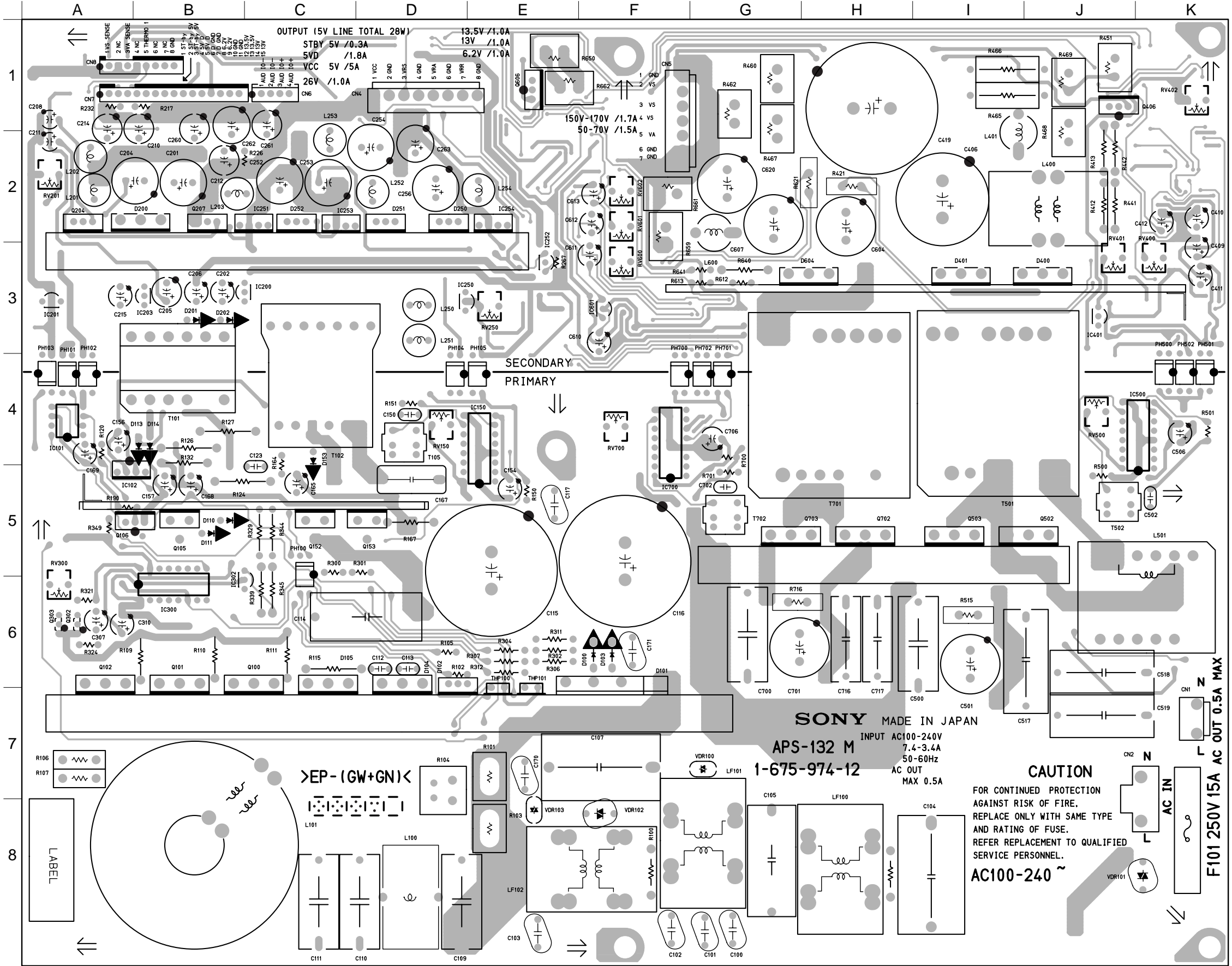
APS-132 M (3/4) (SWITCHING REGULATOR)



APS-132 M (4/4) (SWITCHING REGULATOR)



PFM-510A2W



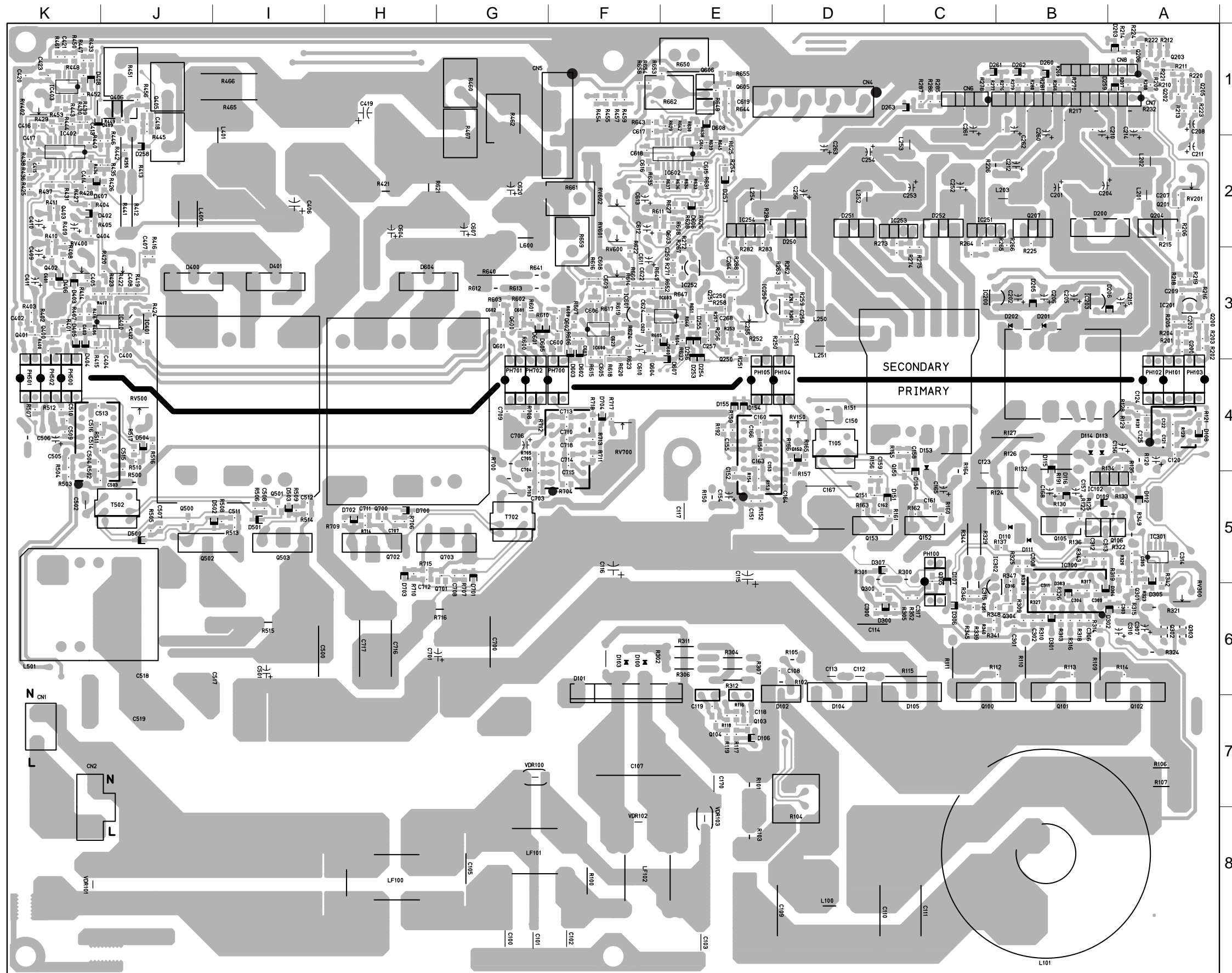
M BOARD (APS-132)

\* : B SIDE

|       |       |        |       |
|-------|-------|--------|-------|
| D100  | F-6   | IC203  | B-3   |
| D101  | F-6   | IC250  | D-3   |
| D102  | D-6   | IC251  | C-2   |
| D103  | F-6   | IC252  | E-3   |
| D104  | D-6   | IC253  | C-2   |
| D105  | C-6   | IC254  | E-2   |
| D106  | * E-7 | IC300  | B-6   |
| D107  | * C-5 | IC301  | * A-5 |
| D108  | * A-4 | IC302  | B-6   |
| D109  | * B-5 | IC400  | * J-3 |
| D110  | B-5   | IC401  | J-3   |
| D111  | B-5   | IC402  | * K-2 |
| D112  | * A-5 | IC403  | * K-1 |
| D113  | B-4   | IC500  | K-4   |
| D114  | B-4   | IC600  | * F-3 |
| D115  | * B-4 | IC601  | F-3   |
| D116  | * B-5 | IC602  | * E-2 |
| D150  | * C-5 | IC603  | * E-3 |
| D151  | * C-5 | IC700  | F-4   |
| D152  | * D-4 |        |       |
| D153  | C-4   | Q100   | C-6   |
| D154  | * E-4 | Q101   | B-6   |
| D155  | * E-4 | Q102   | A-6   |
| D200  | B-2   | Q103   | * E-7 |
| D201  | B-3   | Q104   | * E-7 |
| D202  | B-3   | Q105   | B-5   |
| D203  | * A-1 | Q106   | A-5   |
| D205  | * B-3 | Q150   | * C-5 |
| D206  | * B-3 | Q151   | * D-5 |
| D250  | D-2   | Q152   | C-5   |
| D251  | D-2   | Q153   | D-5   |
| D252  | C-2   | Q200   | * A-3 |
| D253  | * E-3 | Q201   | * A-2 |
| D254  | * E-3 | Q202   | * A-1 |
| D255  | * E-3 | Q203   | * A-1 |
| D256  | * E-3 | Q204   | A-2   |
| D257  | * E-2 | Q205   | * A-1 |
| D258  | * J-2 | Q206   | * A-1 |
| D259  | * B-1 | Q207   | B-2   |
| D260  | * B-1 | Q250   | * E-3 |
| D261  | * C-1 | Q251   | * E-3 |
| D262  | * B-1 | Q300   | * D-6 |
| D263  | * C-1 | Q301   | * A-6 |
| D300  | * C-6 | Q302   | A-6   |
| D301  | * B-6 | Q303   | A-6   |
| D302  | * A-6 | Q304   | * B-6 |
| D303  | * B-6 | Q305   | * C-5 |
| D304  | * A-6 | Q400   | * K-3 |
| D305  | * A-6 | Q401   | * K-3 |
| D306  | * C-6 | Q402   | * K-3 |
| D307  | * D-5 | Q403   | * K-2 |
| D400  | J-3   | Q404   | * K-2 |
| D401  | I-3   | Q405   | * J-1 |
| D402  | * K-2 | Q406   | J-1   |
| D403  | * K-3 | Q500   | * J-5 |
| D404  | * K-3 | Q501   | * I-5 |
| D405  | * K-3 | Q502   | J-5   |
| D406  | * K-3 | Q503   | I-5   |
| D407  | * K-2 | Q600   | * G-3 |
| D408  | * K-1 | Q601   | * G-3 |
| D409  | * K-1 | Q602   | * F-3 |
| D500  | * J-5 | Q603   | * E-2 |
| D501  | * I-5 | Q604   | * F-4 |
| D502  | * I-5 | Q605   | * E-1 |
| D503  | * I-5 | Q606   | * E-1 |
| D504  | * J-4 | Q700   | * H-5 |
| D600  | * E-3 | Q701   | * G-6 |
| D601  | * G-3 | Q702   | H-5   |
| D602  | * F-3 | Q703   | G-5   |
| D603  | * F-3 |        |       |
| D604  | H-3   | RV150  | D-4   |
| D605  | * G-3 | RV201  | A-2   |
| D606  | * E-2 | RV250  | E-3   |
| D607  | * E-3 | RV300  | A-6   |
| D608  | * E-1 | RV400  | K-3   |
| D700  | * H-5 | RV401  | J-3   |
| D701  | * G-5 | RV402  | K-1   |
| D702  | * H-5 | RV500  | J-4   |
| D703  | * H-5 | RV600  | F-3   |
| D704  | * F-4 | RV601  | F-2   |
|       |       | RV602  | F-2   |
|       |       | RV700  | F-4   |
| IC101 | A-4   | THP100 | E-6   |
| IC102 | A-5   | THP101 | E-6   |
| IC150 | E-4   |        |       |
| IC200 | C-3   |        |       |
| IC201 | A-3   |        |       |

APS-132 M -A SIDE-  
SUFFIX: -12





APS-132 M -B SIDE-  
SUFFIX: -12

